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ELECTRIC POWER STATISTICS

JUNE 1978

Production of Energy and Capacity of Plants

Fuel Consumption of Electric Power Plants

Electric Utility System Loads

Sales of Electric Energy

Financial Statistics of Private Utilities

Published: January 1979

DEPARTMENT OF ENERGY
ELECTRIC POWER STATISTICS
FOREWORD

This report presents monthly summaries of statistics taken from reports filed by electric utilities with the former Federal Power Commission on the following subjects with the appropriate page numbers:

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This Report continues the monthly series of the "Electric Power Statistics" Report. Prior to the October 1976 issue, reports were published by the Bureau of Power, Federal Power Commission. The final Bureau of Power Publication in this continuing series was for September 1976. Publishing of this Report now will be the responsibility of the Department of Energy, Energy Information Administration, Office of Energy Data and Interpretation.

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PRODUCTION OF ELECTRIC ENERGY

ELECTRIC UTILITY PRODUCTION-CAPACITY

Electric Energy Production by electric utilities in the United States totaled 188.4 billion kilowatt-hours in June 1978. This is an increase of 4.2 percent from the 180.8 billion kilowatt-hours produced during June 1977. The June 1978 production total was 7.5 percent above the 175.2 billion kilowatt-hours produced during May 1978.

Hydroelectric plants of electric utilities produced 25.2 billion kilowatt-hours in June. This was 46.5 percent above production from this source in June 1977. The remaining components of the total production for June 1978 were 84.1 billion kilowatt-hours for coal-fired plants as compared with 83.1 billion in June 1977, 26.1 billion kilowatt-hours for oil-fired plants as compared with 28.9 billion in June 1977, 30.6 billion kilowatt-hours for gas-fired plants as compared with 29.6 billion in June 1977, 22.2 billion kilowatt-hours for nuclear plants as compared with 21.5 billion in June 1977, and 0.2 billion kilowatt-hour for all other plants as compared with 0.3 billion in June 1977. For June 1978, production by coal-fired plants increased 1.1 percent, oil decreased by 10.0 percent, gas increased by 3.2 percent, nuclear increased by 3.1 percent, and other decreased 32.9 percent from June 1977.

Electric Utility Production during the first six months of 1978 reached 1,068.0 billion kilowatt-hours. This is an increase of 3.2 percent above the 1,035.2 billion kilowatt-hours produced during the first six months of 1977. While steam nuclear, hydroelectric, and gas turbine plants increased 4.7, 37.5, and 27.0 percent, respectively, above their 1977 production levels, steam conventional and internal combustion plants production dropped 2.3 and 2.4 percent, respectively, below their 1977 levels. Coal-fired plants were responsible for 42.5 percent of the total production for the first six months of 1978 followed by 17.7 percent for oil-fired, 13.3 percent for gas-fired, 12.2 percent for nuclear plants, 14.2 percent for hydroelectric plants, and 0.1 percent for all other plants.

Twelve months production by electric utilities totaled 2,157.1 billion kilowatt-hours for the year ending June 1978. This compares with 2,149.5 billion kilowatt-hours for the twelve-month period ended a month earlier and 2,089.8 billion kilowatt-hours for the year ended June 1977.

Installed Nameplate capacity of generating plants in utility service totaled 563,574 megawatts on June 30, 1978 according to reports received during June. This is a net increase of 1,739 megawatts during the month. Ocasionally capacity changes are not reported promptly. Therefore the figures for any one month may reflect additions for retirement for prior periods. The June capacity compares with 543,521 megawatts reported in service on June 30, 1977. The largest quantitative increase in capacity for June 1978 was by steam conventional plants, the percentage of 3.6 percent above the capacity level for June 1977 was not the largest percentage increment. Steam nuclear capacity had the largest percentage increase in June 1978 of 8.6 percent above the June 1977 capacity level. The capacity in June 1978 for hydro, gas turbine, and internal combustion plants also increased 2.3, 1.9, and 0.2 percent, respectively, above their capacities of June 1977.

Production of Electric Energy in 1977 by privately owned, municipally owned, cooperatively owned, Federally owned, and other plants increased 1.5, 4.0, 10.1, 10.6, and 11.5 percent, respectively, from the 1977 production levels.

INDUSTRIAL PRODUCTION-CAPACITY

Electric Energy Production by power plants of industrial concerns, including the stationary plants of electric railroads and railways was 6.7 billion kilowatts-hours in June. This is a decrease of 11.7 percent below production in June 1977. Industrial generating capacity was 19,184 megawatts on June 30, 1978.

Combined Utility and Industrial production was 6.7 billion kilowatt-hours in June, an increase of 11.7 percent as compared with June 1977. Combined production for the year ended June 30, 1978 was 195.1 billion kilowatt-hours which was 3.6 percent above the year ended June 30, 1977.

Utility and Industrial generating capacity totaled 582,758 megawatts on June 30, 1978.

Note. June 1977 production data is revised.

Table 1

ELECTRIC UTILITY – PRODUCTION OF

DIVISION AND STATE	LINE	HYDRO *		COAL		OIL		LINE
		JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	
NEW ENGLAND								
Maine	1	183,125	169,114	0	0	25,861	71,997	1
New Hampshire	2	152,466	74,114	190,792	148,249	40,696	79,493	2
Vermont	3	99,240	44,705	57	1,763	451	155	3
Massachusetts	4	23,367	27,765	0	0	2,143,282	2,388,639	4
Rhode Island	5	120	71	0	0	18,830	45,637	5
Connecticut	6	31,484	17,463	1,693	505	669,818	829,425	6
SUBTOTAL	7	489,802	333,232	192,542	150,517	2,898,938	3,415,346	7
MIDDLE ATLANTIC								
New York	8	2,371,401	1,973,329	1,135,280	1,182,765	4,040,462	4,105,387	8
New Jersey	9	19,326-	8,568-	514,436	442,813	1,416,694	1,265,364	9
Pennsylvania	10	97,748	3,849	6,814,392	7,427,278	1,025,349	983,328	10
SUBTOTAL	11	2,449,823	1,968,610	8,464,108	9,052,856	6,482,505	6,354,079	11
EAST NORTH CENTRAL								
Ohio	12	489	489	9,349,102	8,829,763	211,699	81,839	12
Indiana	13	48,199	22,847	5,205,338	4,986,035	106,856	80,671	13
Illinois	14	9,977	7,285	5,219,600	4,922,386	403,464	497,640	14
Michigan	15	78,854	42,767	4,237,846	4,203,247	833,198	626,829	15
Wisconsin	16	189,314	95,555	1,820,632	1,750,886	37,258	22,443	16
SUBTOTAL	17	326,833	168,943	25,832,518	24,692,317	1,590,475	1,309,422	17
WEST NORTH CENTRAL								
Minnesota	18	90,063	45,223	1,330,426	1,584,979	53,280	63,441	18
Iowa	19	89,484	45,819	968,344	1,182,552	36,610	19,320	19
Missouri	20	99,556	59,036	3,901,089	3,377,734	78,090	77,156	20
North Dakota	21	282,669	140,107	810,593	746,837	2,576	5,179	21
South Dakota	22	692,632	466,668	256,592	212,497	7,430	4,777	22
Nebraska	23	114,174	113,329	261,912	385,086	20,749	11,925	23
Kansas	24	442	126	713,647	562,046	137,697	134,043	24
SUBTOTAL	25	1,369,020	868,508	8,242,603	8,051,731	336,432	315,841	25
SOUTH ATLANTIC								
Delaware	26	0	0	201,330	171,175	368,057	324,901	26
Maryland	27	124,336	54,806	943,918	781,632	596,611	769,269	27
District of Columbia	28	0	0	0	0	146,991	95,896	28
Virginia	29	106,926	30,332	996,748	867,390	1,139,528	927,581	29
West Virginia	30	33,044	21,366	5,103,386	5,122,677	34,684	44,704	30
North Carolina	31	412,556	303,966	4,331,762	4,600,927	24,567	15,982	31
South Carolina	32	270,821	193,592	1,391,721	1,224,549	275,954	411,139	32
Georgia	33	269,158	208,213	4,070,165	3,702,772	331,920	600,030	33
Florida	34	23,251	20,002	1,543,049	1,350,127	4,567,365	4,413,192	34
SUBTOTAL	35	1,240,090	872,277	18,582,079	17,821,249	7,485,677	7,602,694	35
EAST SOUTH CENTRAL								
Kentucky	36	348,495	208,792	4,673,187	4,591,518	2,497	5,668	36
Tennessee	37	715,604	744,965	4,442,957	4,077,100	167,431	241,908	37
Alabama	38	617,967	514,535	3,346,373	3,722,004	49,424	73,921	38
Mississippi	39	0	0	350,702	396,009	935,064	1,089,909	39
SUBTOTAL	40	1,682,066	1,468,272	12,813,219	12,786,631	1,154,416	1,411,406	40
WEST SOUTH CENTRAL								
Arkansas	41	258,105	156,925	79,904	0	603,417	854,514	41
Louisiana	42	0	0	0	0	1,129,988	1,217,368	42
Oklahoma	43	323,338	264,178	309,663	0	2,551	4,488	43
Texas	44	172,600	140,912	2,478,012	2,285,443	155,453	84,337	44
SUBTOTAL	45	754,043	562,015	2,867,579	2,285,443	1,891,409	2,160,707	45
MOUNTAIN								
Montana	46	1,206,184	575,073	319,876	406,462	3,834	3,070	46
Idaho	47	966,126	594,735	0	0	11	8	47
Wyoming	48	92,674	93,154	1,318,314	1,370,515	7,536	3,891	48
Colorado	49	113,520	119,614	1,331,723	1,330,480	9,836	12,933	49
New Mexico	50	8,113	7,355	1,901,892	1,619,532	20,400	22,124	50
Arizona	51	696,037	578,700	1,365,516	1,466,652	211,490	468,790	51
Utah	52	70,985	67,981	682,880	512,239	7,174	6,165	52
Nevada	53	196,176	140,511	551,515	1,015,379	91,921	21,587	53
SUBTOTAL	54	3,349,815	2,177,323	7,071,716	7,719,259	352,202	538,568	54
PACIFIC: CONTIGUOUS STATES								
Washington	55	8,255,721	5,185,346	0	561,954	19	2,866	55
Oregon	56	2,067,166	1,940,897	0	0	411	176-	56
California	57	3,217,199	1,640,381	0	0	3,333,155	5,323,515	57
SUBTOTAL	58	13,540,086	8,766,624	0	561,954	3,333,585	5,326,205	58
PACIFIC:NONCONTIGUOUS STATES								
Alaska	59	42,075	39,430	26,919	20,496	19,383	25,209	59
Hawaii	60	1,142	999	0	0	512,861	485,267	60
SUBTOTAL	61	43,217	40,429	26,919	20,496	532,244	510,476	61
UNITED STATES TOTAL	62	25,244,795	17,226,233	84,093,283	83,142,453	26,057,883	28,944,744	62

* Negative Net Production denotes that the total in-house electric power consumed by pump storage plants exceeds the gross production.

SOURCE: FEDERAL POWER COMMISSION. FORM 4, "MONTHLY POWER PLANT REPORT"

Table 1

ELECTRIC ENERGY BY SOURCE — MWH

LINE	GAS		NUCLEAR		OTHER *		TOTAL		LINE
	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	
1	0	0	478,900	272,153	0	0	687,886	513,264	1
2	0	0	0	0	0	0	383,954	301,856	2
3	28	4,509	339,500	332,579	156	0	439,432	383,711	3
4	6,349	27,524	590,834	410,838	0	0	2,763,832	2,854,766	4
5	0	0	0	0	0	0	18,950	45,708	5
6	0	0	1,332,944	855,021	0	0	2,035,939	1,702,414	6
7	6,377	32,033	2,742,178	1,870,591	156	0	6,329,993	6,329,993	7
8	7,216	14,169	1,985,360	1,807,243	0	0	9,539,699	9,082,893	8
9	3,939	29,961	566,381	298,781	0	0	2,482,124	2,028,351	9
10	351	2,279	1,448,291	1,458,834	0	0	9,586,131	9,875,568	10
11	11,506	46,409	4,200,012	3,564,858	0	0	21,607,954	21,607,954	11
12	10,321	12,820	0	0	104	155	9,571,715	8,925,066	12
13	45,788	4,992	0	0	0	0	5,405,181	5,094,545	13
14	242,777	134,956	3,059,314	2,620,320	0	0	8,935,132	8,182,587	14
15	100,475	110,026	616,986	867,280	0	0	6,067,359	5,850,149	15
16	9,745	52,867	1,039,688	981,913	5	91	3,096,642	2,883,735	16
17	410,106	315,641	4,915,988	4,449,513	109	246	33,076,029	33,076,120	17
18	4,106	29,434	930,966	963,290	483	33	2,409,244	2,666,400	18
19	68,077	100,798	179,170	298,166	444	1,172	1,342,149	1,647,827	19
20	249,015	348,309	0	0	0	0	4,327,750	3,860,235	20
21	30	74	0	0	0	0	1,095,868	892,197	21
22	123	328	0	0	0	0	956,777	682,470	22
23	136,752	132,328	649,087	703,288	0	0	1,182,674	1,345,956	23
24	1,119,430	1,267,608	0	0	0	0	1,971,216	1,963,823	24
25	1,577,533	1,876,879	1,759,223	1,944,744	867	1,205	13,285,678	13,285,678	25
26	17,349	17,815	0	0	0	0	586,736	513,891	26
27	2,605	2,290	984,291	1,053,133	0	0	2,651,761	2,661,130	27
28	0	0	0	0	0	0	146,991	93,896	28
29	12,352	7,670	1,027,804	1,094,950	0	0	3,283,358	2,927,923	29
30	0	99	0	0	0	0	5,171,114	5,188,846	30
31	5	7	668,401	388,273	0	0	5,437,289	5,349,155	31
32	62,067	61	1,593,070	1,269,859	0	0	3,593,633	3,099,200	32
33	25,136	20,639	150,682	428,877	0	0	4,867,061	4,960,531	33
34	1,209,461	1,105,912	1,307,806	1,328,930	0	0	8,650,932	8,218,163	34
35	1,328,975	1,154,493	5,732,054	5,504,022	0	0	34,368,875	34,368,875	35
36	1,456	959	0	0	0	0	5,025,635	4,806,937	36
37	0	0	0	0	0	0	5,325,992	5,063,953	37
38	49,944	25,958	1,803,074	1,830,146	0	0	5,866,782	6,146,564	38
39	270,303	316,552	0	0	0	0	1,556,069	1,802,470	39
40	321,703	343,469	1,803,074	1,830,146	0	0	17,774,478	17,774,478	40
41	49,198	57,122	583,816	570,656	0	0	1,574,440	1,439,217	41
42	3,500,816	3,312,368	0	0	0	0	4,630,804	4,529,736	42
43	2,863,473	3,212,404	0	0	0	0	3,499,025	3,481,070	43
44	14,671,850	13,999,989	0	0	8,150	7,933	17,486,065	16,518,614	44
45	21,085,337	20,581,883	583,816	570,656	8,150	7,933	27,190,334	27,198,267	45
46	542	4,614	0	0	3,941	2,536	1,534,377	989,755	46
47	111	0	0	0	0	0	966,248	594,743	47
48	5,806	3,771	0	0	0	0	1,424,330	1,471,331	48
49	187,401	281,618	92,133	0	0	0	1,734,613	1,744,845	49
50	506,343	580,301	0	0	0	0	2,036,748	2,229,312	50
51	526,759	284,225	0	0	0	0	2,799,802	2,798,367	51
52	47,006	47,948	0	0	0	0	808,045	634,333	52
53	245,593	333,107	0	0	0	0	1,085,205	1,510,584	53
54	1,519,561	1,535,584	92,133	0	3,941	2,536	12,389,368	12,389,368	54
55	0	0	0	523,900	0	0	8,255,740	6,274,066	55
56	0	0	2,902	249,556	613	27,408	2,065,288	2,217,685	56
57	4,213,225	3,637,346	359,611	949,315	211,278	292,853	11,334,468	11,843,410	57
58	4,213,225	3,637,346	356,709	1,722,771	211,891	320,261	21,655,496	21,948,349	58
59	108,621	97,423	0	0	0	0	194,998	182,558	59
60	0	0	0	0	0	3,090	514,003	489,356	60
61	108,621	97,423	0	0	0	3,090	711,001	714,091	61
62	33,982,944	29,621,160	22,185,187	21,517,301	225,114	335,271	188,389,206	180,787,162	62

* Includes generation by geothermal, wood and waste.

Table 2

Production of Electric Energy by INDUSTRIAL ESTABLISHMENTS* (thousand kwh)

DIVISION AND STATE	BY WATER POWER		BY FUELS		TOTAL		TOTAL UTILITY AND INDUSTRIAL	
	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977	JUNE 1978	JUNE 1977
NEW ENGLAND	91,441	91,513	161,150	147,548	252,591	239,061	940,477	752,325
Maine	15,682	16,769	11,421	10,883	27,103	27,652	411,057	329,508
New Hampshire	6,197	6,197	923	923	7,120	7,120	446,552	390,831
Vermont	5,668	6,154	57,375	56,155	63,043	62,309	2,826,875	2,917,075
Massachusetts	0	0	1,704	1,704	1,704	1,704	20,654	47,412
Rhode Island	546	546	16,465	20,580	17,011	21,126	2,052,950	1,723,540
Connecticut								
SUBTOTAL	119,534	121,179	249,038	237,793	368,572	358,972	6,698,565	6,160,691
MIDDLE ATLANTIC	20,012	20,663	186,939	188,307	206,951	208,970	9,746,650	9,291,863
New York	271	271	61,559	58,361	61,830	58,632	2,543,954	2,086,983
New Jersey	65	65	279,028	309,665	279,093	309,730	9,865,224	10,185,298
Pennsylvania								
SUBTOTAL	20,348	20,999	527,526	556,333	547,874	577,332	22,155,828	21,564,144
EAST NORTH CENTRAL	0	0	244,758	250,439	244,758	250,439	9,816,473	9,175,505
Ohio	0	0	492,455	473,325	492,455	473,325	5,897,636	5,567,870
Indiana	1,504	1,504	144,870	140,708	146,374	142,212	9,081,506	8,324,799
Illinois	10,263	10,263	298,660	337,001	308,923	347,264	6,376,282	6,197,413
Michigan	22,872	22,827	127,796	127,204	150,668	150,031	3,247,310	3,033,766
Wisconsin								
SUBTOTAL	34,639	34,594	1,308,539	1,328,677	1,343,178	1,363,271	34,419,207	32,299,353
WEST NORTH CENTRAL	13,613	9,908	213,318	167,415	226,931	177,323	2,636,175	2,843,723
Minnesota	87	87	33,047	33,947	33,134	34,034	1,375,283	1,681,861
Iowa	0	0	27,934	33,653	27,934	33,653	4,355,684	3,893,897
Missouri	0	0	7,172	7,172	7,172	7,172	1,103,040	899,369
North Dakota	0	0	0	0	0	0	959,589	685,282
South Dakota	2,812	2,812	0	0	2,812	2,812	1,182,674	1,345,852
Nebraska	0	0	0	0	0	0	1,980,779	1,974,357
Kansas	0	0	9,563	10,660	9,563	10,660		
SUBTOTAL	16,512	12,807	291,034	252,847	307,546	265,654	13,593,224	13,324,341
SOUTH ATLANTIC	0	0	20,904	21,573	20,904	21,573	607,640	535,464
Delaware	0	0	90,143	95,822	90,143	95,822	2,741,904	2,756,952
Maryland	0	0	0	0	0	0	146,991	95,896
District of Columbia	2,781	2,781	175,857	172,812	178,638	175,593	3,461,996	3,103,516
Virginia	43,465	37,487	118,136	144,793	161,601	182,280	5,332,715	5,371,126
West Virginia	208	208	146,639	152,647	146,847	152,855	5,584,136	5,502,010
North Carolina	3,883	3,883	139,856	148,098	143,739	151,981	3,737,372	3,251,181
South Carolina	4,781	4,781	243,412	253,224	248,193	258,005	5,095,254	5,218,536
Georgia	0	0	206,621	214,831	206,621	214,831	8,857,553	8,432,994
Florida								
SUBTOTAL	55,118	49,140	1,141,568	1,203,800	1,196,686	1,252,940	35,565,561	34,267,675
EAST SOUTH CENTRAL	0	0	1,493	1,493	1,493	1,493	5,027,128	4,808,430
Kentucky	0	0	121,322	130,668	121,322	130,668	5,447,314	5,194,621
Tennessee	28,177	28,177	157,963	182,615	186,140	210,792	6,052,922	6,377,356
Alabama	0	0	58,194	61,500	58,194	61,500	1,614,263	1,863,970
Mississippi								
SUBTOTAL	28,177	28,177	338,972	376,276	367,149	404,453	18,141,627	18,244,377
WEST SOUTH CENTRAL	0	0	177,666	183,223	177,666	183,223	1,752,106	1,822,440
Arkansas	0	0	918,313	1,017,955	918,313	1,017,955	5,549,117	5,547,693
Louisiana	0	0	10,370	8,079	10,370	8,079	3,509,395	3,489,149
Oklahoma	438	438	824,558	1,440,122	824,996	1,440,560	18,311,061	17,959,178
Texas								
SUBTOTAL	438	438	1,930,907	2,649,379	1,931,345	2,649,817	29,121,679	28,818,460
MOUNTAIN	0	0	885	885	885	885	1,535,262	990,640
Montana	0	0	12,385	9,795	12,385	9,795	978,633	604,538
Idaho	0	0	23,911	24,444	23,911	24,444	1,448,241	1,495,775
Wyoming	76	76	17,791	15,985	17,867	16,061	1,752,480	1,760,906
Colorado	0	0	35,386	35,664	35,386	35,664	2,072,134	2,264,976
New Mexico	1,345	1,345	66,118	93,265	67,463	94,610	2,867,265	2,892,977
Arizona	0	0	136,235	109,456	136,235	109,456	944,280	743,789
Utah	0	0	12,552	10,823	12,552	10,823	1,097,757	1,521,407
Nevada								
SUBTOTAL	1,421	1,421	305,263	300,317	306,684	301,738	12,696,052	12,275,008
PACIFIC: Contiguous States								
Washington	17,994	17,250	37,300	97,911	55,294	115,161	8,311,034	6,389,227
Oregon	1,986	629	37,538	36,735	39,524	37,364	2,104,812	2,255,049
California	0	0	130,504	159,416	130,504	159,416	11,464,972	12,002,826
SUBTOTAL	19,980	17,879	205,342	294,062	225,322	311,941	21,880,818	20,647,102
PACIFIC: Noncontiguous States								
Alaska	0	0	27,097	17,752	27,097	17,752	224,095	200,310
Hawaii	5,902	5,902	47,130	48,479	53,032	54,381	567,035	543,737
SUBTOTAL	5,902	5,902	74,227	66,231	80,129	72,133	791,130	744,047
UNITED STATES TOTAL	302,069	292,536	6,372,416	7,265,715	6,674,485	7,558,251	195,063,691	188,345,198

* Extended to represent total industrial production of electric energy from data reported monthly by about 375 generating plants which account for more than 95 percent coverage.

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 3

TOTAL PRODUCTION BY ELECTRIC UTILITIES
(thousand kwh)

MONTH	TWELVE MONTHS ENDING			MONTHLY		
	1978	1977	PERCENT CHANGE	1978	1977	PERCENT CHANGE
JANUARY	2,125,767,096	2,055,739,920	+ 3.4	197,815,045	196,371,882	+ .7
FEBRUARY	2,136,699,744	2,061,790,644	+ 3.6	173,467,118	162,734,470	+ 6.7
MARCH	2,140,775,115	2,066,772,899	+ 3.6	173,232,018	169,156,447	+ 2.4
APRIL	2,143,643,473	2,070,456,667	+ 3.5	159,721,583	156,853,225	+ 1.8
MAY	2,149,536,497	2,082,420,321	+ 3.2	175,224,831	169,331,807	+ 3.5
JUNE	2,157,138,541	2,089,815,628	+ 3.2	188,389,206	180,787,162	+ 4.2
JULY		2,102,311,326			198,929,748	
AUGUST		2,112,034,165			196,126,389	
SEPTEMBER		2,123,263,840			176,264,876	
OCTOBER		2,125,919,500			166,401,747	
NOVEMBER		2,123,933,779			167,099,098	
DECEMBER		2,124,323,933			184,266,882	

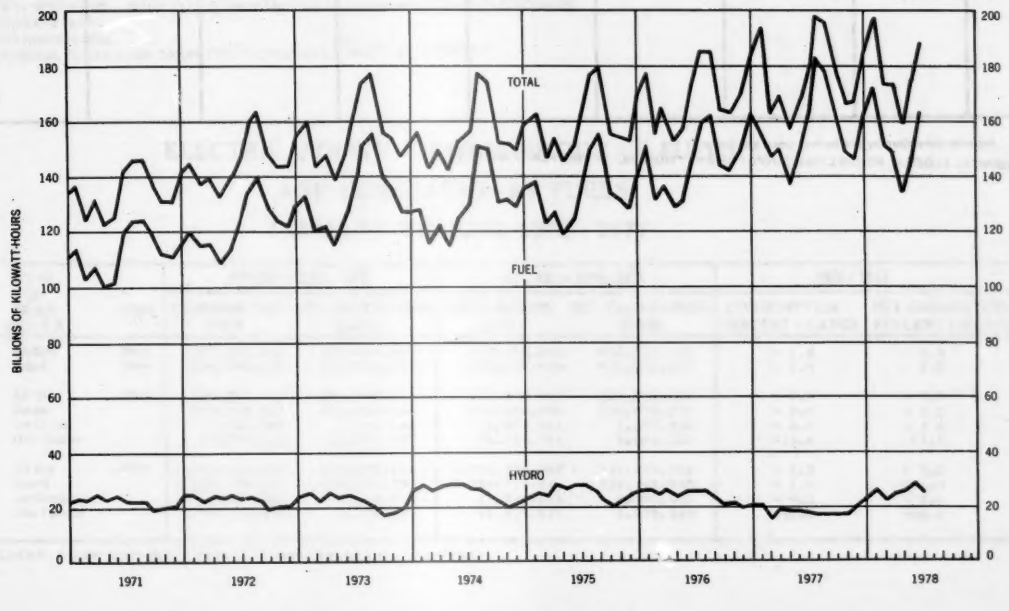
Table

TOTAL ELECTRIC UTILITY AND INDUSTRIAL PRODUCTION
(thousand kwh)

MONTH	TWELVE MONTHS ENDING			MONTHLY		
	1978	1977	PERCENT CHANGE	1978	1977	PERCENT CHANGE
JANUARY	2,242,978,845	2,142,907,696	+ 3.3	204,603,936	203,638,743	+ .5
FEBRUARY	2,223,471,912	2,148,598,489	+ 3.5	179,882,086	169,389,019	+ 6.2
MARCH	2,227,051,950	2,153,511,024	+ 3.4	180,234,635	176,654,597	+ 2.0
APRIL	2,229,066,717	2,157,526,095	+ 3.3	166,450,138	164,437,371	+ 1.2
MAY	2,234,128,493	2,169,553,034	+ 3.0	181,995,668	176,931,892	+ 2.9
JUNE	2,240,846,771	2,177,066,230	+ 2.9	195,063,691	188,345,413	+ 3.6
JULY		2,189,685,201			206,320,754	
AUGUST		2,199,473,803			203,400,158	
SEPTEMBER		2,210,788,291			183,347,390	
OCTOBER		2,213,337,843			173,718,424	
NOVEMBER		2,211,375,533			174,208,078	
DECEMBER		2,212,013,652			191,561,813	

Chart 1

MONTHLY PRODUCTION OF ELECTRIC ENERGY BY ELECTRIC UTILITIES



SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 5

ELECTRIC UTILITY — PRODUCTION OF ELECTRIC ENERGY BY MONTH — MWH

YEAR	MONTH	HYDRO	COAL	OIL	GAS	NUCLEAR	OTHER *	TOTAL
1977	JANUARY	20,700,342	89,844,381	43,363,425	19,952,661	22,152,064	359,009	196,371,882
	FEBRUARY	15,149,871	78,752,073	29,429,389	19,480,512	19,600,519	322,106	162,734,470
	MARCH	19,800,782	77,518,538	28,342,380	22,467,130	20,672,203	355,614	169,156,647
	APRIL	18,642,086	70,895,212	25,833,189	21,296,932	19,866,564	319,242	156,853,225
	MAY	18,676,952	77,068,820	27,944,138	24,701,347	20,599,284	341,266	169,331,807
	JUNE	17,226,233	83,142,453	28,944,744	29,621,160	21,517,301	335,271	180,787,162
	JULY	16,798,746	92,402,144	34,863,902	32,712,560	21,824,836	327,560	198,929,748
	AUGUST	16,712,194	90,758,286	32,298,366	33,290,508	22,749,667	317,368	196,126,389
	SEPTEMBER	16,424,766	82,586,020	26,344,302	30,937,598	19,629,993	342,197	176,264,876
	OCTOBER	17,188,940	79,398,390	23,058,036	27,355,611	19,041,045	359,725	166,401,747
	NOVEMBER	20,397,557	79,485,570	24,845,040	22,565,631	19,458,411	346,889	167,099,098
	DECEMBER	22,756,225	83,631,091	32,647,848	21,123,325	23,771,398	336,995	184,266,882
	TOTAL	220,474,694	985,482,978	357,914,759	305,504,975	250,883,285	4,003,242	2,124,323,933
1978	JANUARY	25,067,437	85,028,632	39,227,518	22,301,974	25,832,950	356,534	197,815,045
	FEBRUARY	22,399,168	70,692,300	38,072,438	20,361,554	21,832,501	309,157	173,667,118
	MARCH	24,662,163	66,757,966	36,838,696	22,260,566	22,448,668	263,959	173,232,018
	APRIL	25,326,597	70,411,349	24,885,193	21,310,934	17,579,903	207,607	159,721,583
	MAY	28,774,942	76,491,117	24,298,653	25,057,172	20,416,171	186,776	175,224,831
	JUNE	25,244,795	84,093,283	26,057,883	30,582,944	22,185,187	225,114	188,389,206
	TOTAL (6 MONTHS)	151,475,102	453,474,647	189,380,381	141,875,144	130,295,380	1,549,147	1,068,049,801

* Includes generation by geothermal, wood and waste.

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 6

ELECTRIC UTILITIES PRODUCTION OF ELECTRIC ENERGY AND INSTALLED CAPACITY OF GENERATING PLANTS JANUARY TO JUNE 1978 - 1977

TYPE OF PRIME MOVER	CLASS OF OWNERSHIP	CAPACITY JUNE 1978 NO**	CAPACITY JUNE 1978 MW	CAPACITY JUNE 1977 NO**	CAPACITY JUNE 1977 MW	PERCENT CHANGE 1978/1977	NET PRODUCTION JANUARY-JUNE 1978 MWH	NET PRODUCTION JANUARY-JUNE 1977 MWH	PERCENT CHANGE 1978/1977
All Types	All Classes	3626	563,574.1	3631	543,521.3	+ 3.7	1,068,049,801	1,035,235,193	+ 3.2
	Privately Owned	2108	439,916.3	2102	424,832.2	+ 3.6	827,466,968	815,574,769	+ 1.5
	Municipal	969	33,279.4	984	31,463.5	+ 5.8	42,580,149	40,966,052	+ 4.0
	Federal	183	54,223.4	183	53,244.5	+ 1.8	118,995,204	107,591,564	+ 10.6
	Cooperative	209	11,364.9	206	9,890.5	+14.9	23,039,293	20,934,599	+ 10.1
	Other*	157	24,790.0	156	24,090.6	+ 2.9	55,968,187	50,188,209	+ 11.5
Hydro	All Classes	1146	69,749.8	1143	68,163.6	+ 2.3	151,475,102	110,196,266	+ 37.5
	Privately Owned	731	23,540.5	728	23,131.9	+ 1.8	42,733,192	27,072,457	+ 57.8
	Municipal	150	3,998.6	150	3,998.0	+ 0.0	7,890,908	3,960,629	+ 99.2
	Federal	156	30,372.9	156	29,394.0	+ 3.3	71,539,471	56,644,215	+ 26.3
	Cooperative	20	68.0	20	68.0	+ 0.0	148,429	85,861	+ 72.9
	Other*	89	11,769.9	89	11,571.8	+ 1.7	29,163,102	22,433,104	+ 30.0
Steam Conventional	All Classes	951	389,664.3	958	376,123.4	+ 3.6	766,323,640	784,374,124	- 2.3
	Privately Owned	641	332,538.3	644	322,321.2	+ 3.2	663,901,961	680,982,377	- 2.5
	Municipal	203	22,107.6	210	20,426.9	+ 8.2	29,745,954	30,522,308	- 2.5
	Federal	18	17,867.3	18	17,867.3	+ 0.0	36,613,223	38,819,196	- 5.7
	Cooperative	55	9,448.8	52	8,295.7	+13.9	21,302,830	19,676,786	+ 8.3
	Other*	34	7,702.3	34	7,212.3	+ 6.8	14,759,672	14,373,457	+ 2.7
Steam Nuclear	All Classes	50	50,861.3	46	46,851.8	+ 8.6	130,295,380	124,407,935	+ 4.7
	Privately Owned	42	42,635.3	38	38,625.8	+10.4	107,423,938	96,576,724	+ 11.2
	Municipal	1	963.0	1	963.0	0.0	2,272,198	3,768,409	- 39.7
	Federal	1	3,456.0	1	3,456.0	+ 0.0	8,799,739	11,050,505	- 20.4
	Cooperative	1	55.0	1	55.0	+ 0.0	44,795	91,862	- 29.5
	Other*	5	3,752.0	5	3,752.0	+ 0.0	11,734,710	12,920,435	- 9.2
Gas Turbine	All Classes	531	48,028.5	523	47,125.3	+ 1.9	17,663,960	13,908,046	+ 27.0
	Privately Owned	403	39,624.8	397	39,176.5	+ 1.1	12,962,978	10,521,484	+ 23.2
	Municipal	87	2,928.8	86	2,792.1	+ 4.9	1,019,884	971,538	+ 5.0
	Federal	4	2,510.0	4	2,510.0	+ 0.0	2,038,973	1,073,069	+ 90.0
	Cooperative	22	1,444.7	21	1,126.5	+28.2	1,334,160	881,287	+ 51.4
	Other*	15	1,520.2	15	1,520.2	+ 0.0	307,965	460,668	- 33.1
Internal Combustion	All Classes	948	5,270.2	961	5,257.3	+ 0.2	2,291,719	2,348,822	- 2.4
	Privately Owned	291	1,777.4	295	1,576.8	+ 0.0	444,899	421,727	+ 5.5
	Municipal	528	3,281.5	537	3,283.5	- 0.1	1,651,205	1,723,168	- 4.2
	Federal	4	17.2	4	17.2	+ 0.0	3,798	4,579	- 17.1
	Cooperative	111	348.5	112	345.4	+ 0.9	189,079	198,803	- 4.9
	Other*	14	45.6	13	34.3	+32.9	2,738	545	+402.4

* POWER DISTRICTS AND STATE PROJECTS.

** PLANTS IN OPERATION – EACH TYPE OF PRIME MOVER AT COMBINATION PLANTS IS COUNTED AS A SEPARATE PLANT.

NM – NOT MEANINGFUL.

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 7

ELECTRIC UTILITY – CONSUMPTION OF FUELS AND GENERATION BY FUELS JANUARY TO JUNE 1978 - 1977

TYPE OF FUEL	TYPE OF PRIME MOVER	UNIT	JANUARY-JUNE 1978 CONSUMPTION UNIT	JANUARY-JUNE 1978 NET GENERATION MWH	JANUARY-JUNE 1978 CONSUMPTION UNIT	JANUARY-JUNE 1978 NET GENERATION MWH	1978/1977 CONSUMPTION PERCENT CHANGE	1978/1977 NET GENERATION PERCENT CHANGE
Coal	All Coal	Short	225,366,009	453,474,647	229,494,845	477,221,477	- 1.8	- 5.0
	Steam	Tons	225,366,009	453,474,647	229,494,845	477,221,477	- 1.8	- 5.0
Oil	All Oil	BBLS	332,897,177	189,380,381	318,974,757	183,857,265	+ 4.4	+ 3.0
	Steam		303,508,802	176,800,284	293,454,095	172,970,298	+ 3.4	+ 2.2
	Int Comb		2,368,342	1,248,740	2,352,941	1,205,864	+ 0.7	+ 3.6
	Gas Turbine		27,020,033	11,331,357	23,167,721	9,681,103	+16.6	+17.0
Gas	All Gas	MCF	1,476,602,909	141,875,144	1,430,859,367	137,519,742	+ 3.2	+ 3.2
	Steam		1,385,466,917	134,548,738	1,359,717,146	132,199,958	+ 1.9	+ 1.8
	Int Comb		11,996,008	1,042,035	13,224,346	1,140,445	- 9.3	- 8.6
	Gas Turbine		79,139,984	6,284,371	57,917,875	4,179,339	+36.6	+50.4

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

CONSUMPTION OF FUEL FOR PRODUCTION OF ELECTRIC ENERGY

FUEL CONSUMPTION

Coal Consumption by electric utility power plants was 40.8 million tons in June 1978. This is an increase of 1.7 percent above the 40.1 million tons consumed in June 1977. The June 1978 total was 9.7 percent above the 37.2 million tons consumed in May 1978. The indicated June rate for combustion of coal was .971 pound per kilowatt-hour, compared with .966 pound per kilowatt-hour a year earlier.

Oil Consumption during June 1978 totaled 46.3 million barrels. This is a decrease of 8.4 percent below the 50.5 million barrels consumed in June 1977. June 1978 oil use was 8.9 percent above that for May 1978.

Gas Consumption during June 1978 totaled 321.0 billion Mcf. This is an increase of 3.3 percent from the 310.7 billion Mcf burned in June 1977. June 1978 gas use was 23.2 percent above the 260.5 billion Mcf burned in May 1978.

Twelve Months Consumption of Fuel totaled 473.1 million tons of coal, 637.6 million barrels of oil, and 3,236.9 billion Mcf of gas. These amounts represent increases of 6.2 percent for coal, 4.5 percent for oil, and an increase of 5.2 percent for gas as compared with corresponding totals for the 12-months ended June 30, 1977.

FUEL STOCKS

Coal stocks on hand at electric utility power plants on July 1, 1978 totaled 110.9 million tons. July 1, 1978 stocks were 13.9 percent below the 128.8 million tons in stock a year earlier and 10.0 percent above the 100.8 million tons in stock at the beginning of the previous month.

In terms of Day's Supply, which is based on the rate of consumption for the month of July, there were sufficient stocks of coal on hand July 1, 1978 to last 82 days as compared with 84 days a month before and 96 days a year earlier.

Fuel oil Stocks on hand as of July 1, 1978 totaled 137.7 million barrels compared with 135.8 million barrels a month earlier and 123.3 million barrels a year earlier. Oil stocks based on June use were sufficient for 89 days requirements against 98 days a month before and 73 days a year ago.

The table on fuel stocks in addition to showing days's supply information gives the percent of total generation produced by coal and oil for the latest full year available in order to indicate the relative importance of those fuels to power production in each state.

Use Of Coal for electric power production amounted to 225.4 billion tons during the first six months of 1978. This was 1.8 percent below the 229.5 million tons burned for the same period in 1977. Generation by coal decreased 5.0 percent from 453.5 billion kilowatt-hours in 1978 to 477.2 billion kilowatt-hours for the first six months of 1977.

Use Of Fuel Oil for electric production amounted to 332.9 million barrels for the first six months of 1978. This was 4.4 percent above the 319.0 million barrels consumed for the first six months of 1977. Generation by oil increased by 3.0 percent from 189.4 billion kilowatt-hours for the first six months of 1978 to 183.9 billion kilowatt-hours in 1977.

Use Of Gas totaled 1,476.6 million Mcf for the first six months of 1978. This was 3.2 percent above the 1,430.9 million Mcf consumed for the same period in 1976. Generation by gas increased by 3.2 percent from 137.5 billion kilowatt-hours generated for the first six months of 1977 to 141.9 billion kilowatt-hours during the first half to 1978.

Note: June 1977 consumption and stock data is revised.

Table 8

CONSUMPTION OF FUEL BY ELECTRIC UTILITIES FOR PRODUCTION OF ELECTRIC ENERGY

DIVISION AND STATE	COAL (Short tons) JUNE 1978	COAL (Short tons) JUNE 1977	OIL (42 Gallon barrels) JUNE* 1978	OIL (42 Gallon barrels) JUNE 1977	GAS (Thousands of cubic feet) JUNE 1978	GAS (Thousands of cubic feet) JUNE 1977
NEW ENGLAND						
Maine	0	0	51,547	126,381	0	0
New Hampshire	73,769	55,258	81,335	146,779	0	0
Vermont	45	1,248	1,392	642	570	67,160
Massachusetts	0	0	3,424,836	3,871,966	76,116	342,594
Rhode Island	0	0	42,247	92,226	0	0
Connecticut	1,358	642	1,137,654	1,387,205	0	0
SUBTOTAL	75,172	57,148	4,739,011	5,625,199	76,686	409,754
MIDDLE ATLANTIC						
New York	503,197	520,698	7,105,533	7,034,878	85,725	159,781
New Jersey	205,372	178,925	2,490,165	2,281,720	40,200	322,764
Pennsylvania	2,970,225	3,214,770	1,918,333	1,789,421	5,880	33,316
SUBTOTAL	3,678,794	3,914,393	11,514,031	11,106,019	131,805	515,861
EAST NORTH CENTRAL						
Ohio	4,426,589	4,197,583	476,721	203,534	239,897	265,761
Indiana	2,509,053	2,451,864	206,363	180,057	508,195	56,880
Illinois	2,750,222	2,591,616	824,545	1,056,900	2,820,660	1,837,694
Michigan	1,897,775	1,817,512	1,529,961	1,185,706	2,614,662	2,400,639
Wisconsin	963,410	894,207	91,065	61,864	154,679	862,973
SUBTOTAL	12,547,049	11,952,782	3,128,655	2,688,061	6,338,093	5,423,947
WEST NORTH CENTRAL						
Minnesota	851,721	999,777	118,535	149,702	64,328	377,553
Iowa	570,692	656,209	92,671	43,189	1,187,410	1,079,466
Missouri	1,867,193	1,624,663	173,809	173,038	3,293,805	4,597,429
North Dakota	725,800	631,821	4,501	10,622	389	1,367
South Dakota	250,237	206,009	18,841	16,789	1,755	5,077
Nebraska	139,849	194,643	46,393	27,428	1,747,526	1,578,998
Kansas	428,123	332,622	283,280	250,504	13,809,647	15,343,265
SUBTOTAL	4,833,615	4,665,744	738,030	671,272	20,104,860	22,983,355
SOUTH ATLANTIC						
Delaware	84,446	64,811	628,169	573,144	170,424	169,558
Maryland	367,514	318,764	1,141,330	1,359,970	27,204	23,587
District of Columbia	0	0	344,101	204,686	0	0
Virginia	410,502	362,230	2,157,390	1,681,078	135,488	74,956
West Virginia	2,143,404	2,161,662	90,535	91,053	0	1,364
North Carolina	1,754,097	1,896,103	61,722	41,542	55	77
South Carolina	585,511	518,019	473,677	716,587	629,807	711
Georgia	1,764,674	1,543,769	649,525	1,253,934	295,210	266,995
Florida	714,765	599,796	7,832,230	7,489,650	13,951,830	12,687,861
SUBTOTAL	7,824,913	7,465,154	13,378,679	13,411,644	14,710,018	13,225,111
EAST SOUTH CENTRAL						
Kentucky	2,175,875	2,134,868	6,093	11,790	26,446	16,606
Tennessee	2,034,139	1,866,620	382,857	534,431	0	0
Alabama	1,481,267	1,661,294	113,602	173,286	546,395	289,091
Mississippi	164,980	176,742	1,593,625	1,862,337	3,484,176	3,847,772
SUBTOTAL	5,856,261	5,839,524	2,096,177	2,581,844	4,057,017	4,153,469
WEST SOUTH CENTRAL						
Arkansas	54,732	0	1,048,192	1,470,651	661,336	653,869
Louisiana	0	0	1,955,907	2,096,085	35,809,305	32,951,295
Oklahoma	182,303	0	5,480	9,764	28,229,507	31,607,627
Texas	1,899,241	1,735,711	273,218	157,459	150,434,820	143,259,501
SUBTOTAL	2,136,276	1,735,711	3,282,797	3,733,959	215,134,968	208,472,292
MOUNTAIN						
Montana	194,130	200,341	10,376	7,137	9,421	45,105
Idaho	0	0	27	18	1,300	0
Wyoming	824,205	808,751	17,023	7,188	87,949	59,213
Colorado	716,501	723,197	27,523	34,414	2,471,822	3,598,330
New Mexico	877,162	921,549	43,437	44,368	5,521,878	6,568,398
Arizona	657,127	684,850	377,690	835,505	5,660,659	3,184,831
Utah	297,453	234,281	12,051	11,762	643,146	648,003
Nevada	282,954	499,036	158,977	38,707	2,620,429	3,539,433
SUBTOTAL	3,849,592	4,136,005	647,104	979,099	17,016,604	17,643,313
PACIFIC: Contiguous States						
Washington	0	362,764	190	5,280	0	0
Oregon	0	0	2,124	103	0	20
California	0	0	5,840,854	8,854,142	41,803,649	36,296,974
SUBTOTAL	0	362,764	5,843,168	8,859,525	41,803,649	36,296,994
PACIFIC: Noncontiguous States						
Alaska	20,770	17,074	41,872	59,563	1,627,764	1,544,119
Hawaii	0	0	879,049	832,540	0	0
SUBTOTAL	20,770	17,074	920,921	892,103	1,627,764	1,544,119
UNITED STATES TOTAL	40,822,442	40,148,299	46,288,573	50,548,725	321,001,464	310,668,215

* Includes Internal Combustion and Gas Turbine Plant Use, Barrels: N.E. 30,780 M.A. 598,896 E.N.C. 474,976 W.N.C. 322,952 S.A. 1,066,514 E.S.C. 517,292 W.S.C. 48,128 MTN. 122,557 PAC. 379,999 U.S. TOTAL 3,560,074

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 7

ELECTRIC UTILITY STOCKS AND DAY'S SUPPLY* OF COAL AND OIL FOR THE PRODUCTION OF ELECTRIC ENERGY

DIVISION AND STATE	COAL					OIL				
	Stocks (Short tons)		Day's Supply		Energy Produced By Coal	Stocks (Barrels)		Day's Supply		Energy Produced By Oil
	JULY 1 1978	JULY 1 1977	JULY 1** 1978	1977	% Total 1977	JULY 1 1978	JULY 1 1977	JULY 1 1978	1977	% Total 1977
NEW ENGLAND										
Maine	0	0	-	-	0.0	486,915	523,916	285	124	9.4
New Hampshire	92,699	169,658	38	92	47.5	452,761	784,964	167	160	29.3
Vermont	17,701	1,831	-	44	0.4	73,662	57,817	-	-	0.4
Massachusetts	406,494	476,373	-	-	0.0	2,878,044	2,477,412	25	19	87.2
Rhode Island	38,179	38,179	-	-	0.0	238,534	142,822	169	46	99.4
Connecticut	30,113	37,384	-	-	0.0	2,192,906	2,458,567	58	53	45.0
SUBTOTAL	585,186	723,425	234	-	3.3	6,324,822	6,445,498	40	34	56.4
MIDDLE ATLANTIC										
New York	1,298,879	1,388,274	77	80	13.2	11,966,983	9,228,394	51	39	45.6
New Jersey	692,683	965,682	101	162	21.5	2,570,646	2,573,216	31	34	52.9
Pennsylvania	8,887,078	13,513,393	90	126	71.7	4,248,634	4,311,370	66	72	12.0
SUBTOTAL	10,878,640	15,867,349	89	122	40.4	18,786,263	16,112,980	49	44	31.5
EAST NORTH CENTRAL										
Ohio	7,887,151	10,579,369	53	76	97.1	1,159,630	1,174,899	73	173	2.3
Indiana	6,987,620	8,860,371	84	108	97.6	507,722	490,354	74	82	1.7
Illinois	5,594,272	8,425,212	61	98	64.0	5,285,774	2,752,802	192	78	6.4
Michigan	5,237,095	5,939,714	83	98	69.2	1,279,072	1,660,592	25	42	12.2
Wisconsin	2,957,730	4,521,209	92	152	62.6	446,814	533,042	147	258	1.8
SUBTOTAL	28,663,868	38,325,875	69	96	80.2	8,679,012	6,611,689	83	74	5.0
WEST NORTH CENTRAL										
Minnesota	3,203,384	4,206,858	113	126	61.2	716,585	934,762	181	187	2.4
Iowa	2,806,322	3,045,390	148	139	71.8	744,101	729,498	241	-	1.9
Missouri	4,169,206	5,788,261	67	107	92.8	925,854	725,890	160	126	1.8
North Dakota	2,545,093	2,105,311	105	97	80.3	64,927	56,273	-	159	0.4
South Dakota	329,456	293,094	39	43	33.1	189,931	99,910	302	179	0.7
Nebraska	569,093	839,446	122	129	30.2	699,631	664,599	-	-	3.0
Kansas	3,384,835	1,857,363	237	168	36.8	2,244,088	2,362,329	238	283	11.3
SUBTOTAL	17,007,389	18,135,723	106	117	65.5	5,585,117	5,573,261	227	249	3.2
SOUTH ATLANTIC										
Delaware	107,233	232,644	38	108	30.5	852,281	1,055,160	41	55	67.5
Maryland	1,074,514	1,569,850	88	148	33.1	3,652,380	2,967,828	96	65	28.4
District of Columbia	0	0	-	-	0.0	145,396	117,100	13	17	10.0
Virginia	1,253,376	1,434,262	92	119	31.8	3,650,269	4,081,466	51	73	41.3
West Virginia	6,058,207	5,453,267	85	76	98.7	203,711	206,495	68	68	0.7
North Carolina	4,279,035	4,482,310	73	71	82.0	326,373	287,552	159	208	0.8
South Carolina	1,419,936	1,213,711	73	70	38.5	1,760,432	1,312,006	111	55	9.5
Georgia	4,488,145	5,138,929	76	100	75.6	909,029	699,996	42	17	8.5
Florida	1,269,945	1,560,991	53	78	17.5	10,932,155	9,288,268	42	37	47.7
SUBTOTAL	19,950,391	21,085,964	76	85	54.7	22,432,026	20,015,871	50	45	21.2
EAST SOUTH CENTRAL										
Kentucky	7,048,575	8,725,353	97	123	93.8	163,280	116,705	-	297	0.2
Tennessee	4,028,704	5,989,231	59	96	79.7	859,699	322,373	67	18	2.9
Alabama	4,142,750	5,447,598	64	98	57.9	319,184	151,203	84	26	0.6
Mississippi	404,710	460,037	74	78	20.2	3,254,191	2,746,633	61	44	60.6
SUBTOTAL	15,624,739	20,622,219	80	106	71.1	4,596,354	3,336,914	66	39	6.0
WEST SOUTH CENTRAL										
Arkansas	555,965	0	305	-	0.0	1,649,641	1,292,509	47	26	52.5
Louisiana	0	0	-	-	0.0	4,069,420	1,802,402	62	26	27.3
Oklahoma	1,860,283	60,435	306	-	2.0	1,096,358	903,535	-	-	0.3
Texas	3,463,147	2,499,204	55	43	12.5	14,033,394	13,929,122	-	-	1.7
SUBTOTAL	5,879,395	2,559,639	83	44	8.1	20,848,813	17,927,568	191	144	9.0
MOUNTAIN										
Montana	291,648	280,633	45	32	35.5	152,280	151,842	-	-	0.7
Idaho	0	0	-	-	0.0	43,966	47,644	-	-	0.0
Wyoming	1,928,813	1,575,542	70	58	95.5	22,460	36,851	40	154	0.3
Colorado	2,467,276	3,127,918	103	130	79.1	729,597	669,909	-	-	1.4
New Mexico	2,130,571	1,139,769	73	37	68.6	645,411	579,855	-	-	2.3
Arizona	2,329,065	1,393,024	106	61	53.7	3,355,566	3,312,784	267	119	15.4
Utah	638,800	1,291,946	64	165	81.0	119,056	116,159	296	296	1.7
Nevada	727,929	1,307,740	77	79	64.6	542,566	538,393	102	-	5.0
SUBTOTAL	10,514,102	10,116,572	82	73	64.2	5,610,902	5,453,437	260	167	4.8
PACIFIC: Contiguous States										
Washington	1,803,831	1,349,354	-	112	10.3	161,371	164,481	-	-	0.0
Oregon	0	0	-	-	0.0	815,846	976,679	-	-	0.4
California	0	0	-	-	0.0	43,059,473	39,887,167	221	135	55.7
SUBTOTAL	1,803,831	1,349,354	-	112	3.3	44,036,690	41,028,327	226	139	31.1
PACIFIC: Noncontiguous States										
Alaska	1,015	6,624	1	12	11.0	162,420	138,437	116	70	14.6
Hawaii	0	0	-	-	0.0	609,480	684,822	21	25	99.3
SUBTOTAL	1,015	6,624	1	12	3.4	771,900	823,259	25	28	72.8
UNITED STATES TOTAL	110,908,556	128,792,744	82	96	46.4	137,671,899	123,328,804	89	73	16.8

* Days' supply is based on the current rate of consumption and the available supply. Data exceeding 365 days are not shown.

** Includes anthracite stocks of 2,215,393 tons largely in Pennsylvania.

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Table 10

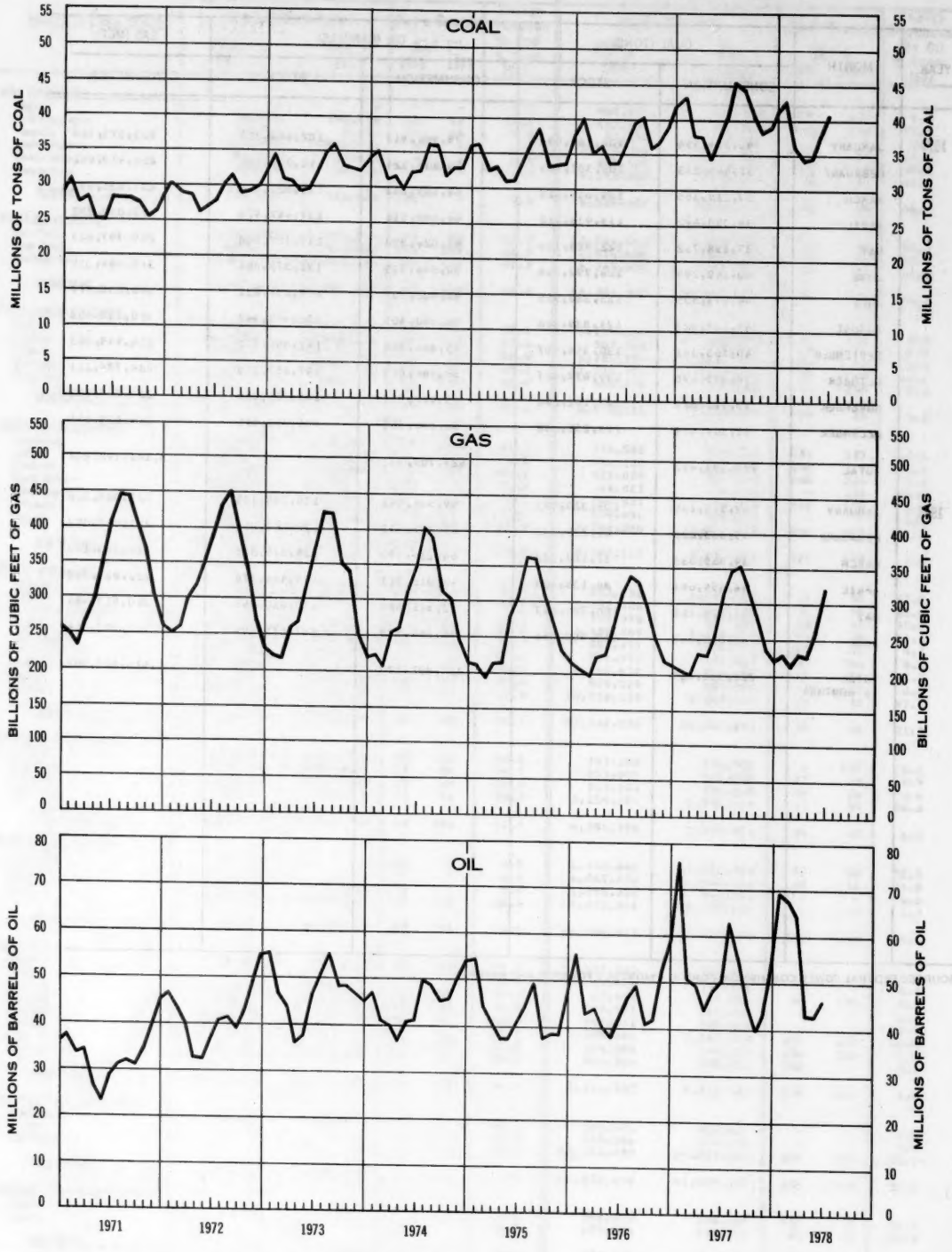
ELECTRIC UTILITY — CONSUMPTION OF FUEL FOR PRODUCTION OF ELECTRIC ENERGY — FUEL STOCKS

YEAR	MONTH	COAL (TONS)		OIL (BARRELS)		GAS (MCF)
		CONSUMPTION	STOCK	CONSUMPTION	STOCK	CONSUMPTION
1977	JANUARY	43,254,554	106,182,994	75,896,417	102,844,292	205,073,768
	FEBRUARY	37,665,233	103,307,165	50,809,124	110,031,338	200,412,891
	MARCH	37,217,355	109,618,315	48,665,647	113,625,098	231,825,952
	APRIL	34,050,692	115,913,012	44,430,516	117,447,928	223,080,732
	MAY	37,158,712	122,828,195	48,624,328	119,709,508	259,797,809
	JUNE	40,148,299	126,792,744	50,548,725	123,328,804	310,668,215
	JULY	44,973,505	123,388,955	62,402,207	129,031,222	346,639,277
	AUGUST	44,168,827	123,839,328	56,590,405	136,443,442	350,718,458
	SEPTEMBER	40,163,381	130,354,907	45,813,866	142,696,832	324,549,063
	OCTOBER	38,373,196	139,677,827	39,966,019	147,053,285	284,788,211
	NOVEMBER	38,715,084	149,702,286	43,117,338	148,285,200	234,005,862
	DECEMBER	41,304,654	133,259,008	56,840,569	144,030,671	219,638,611
	TOTAL	477,193,492		623,705,161		3,191,198,849
1978	JANUARY	42,715,139	105,320,993	69,508,091	130,285,195	229,083,318
	FEBRUARY	35,883,686	84,738,332	67,325,531	128,182,354	211,097,052
	MARCH	34,065,833	77,187,120	64,234,783	129,579,515	232,083,100
	APRIL	34,654,691	88,135,409	43,018,311	133,404,578	222,824,540
	MAY	37,224,218	100,782,857	42,521,888	135,820,363	260,513,435
	JUNE	40,822,442	110,908,556	46,288,573	137,671,899	321,001,464
	TOTAL (6 MONTHS)	225,366,009		332,897,177		1,476,602,909

SOURCE: FEDERAL POWER COMMISSION, FORM 4, "MONTHLY POWER PLANT REPORT"

Chart 2

MONTHLY CONSUMPTION OF FUEL BY ELECTRIC UTILITY POWER PLANTS FOR PRODUCTION OF ELECTRIC ENERGY



ELECTRIC UTILITY SYSTEM LOADS AND CAPACITY

(Major Electric Utility Systems of the United States) 1/

JUNE 1978

PEAK LOADS

PEAK LOADS IN JUNE 1978 on the principal electric utility systems of the United States reached a total of 379,490 megawatts. This amount exceeded the corresponding June 1977 peak load aggregate by some 26,103 megawatts or 7.4 percent. Compared with loads in the preceding month, the June 1978 summation was higher by about 42,687 megawatts or 12.7 percent. In 1977 the comparable May to June increase was approximately 28,148 megawatts or 8.7 percent.

REGIONAL TOTALS of June 1978 peak load data are given in Table 11 below, in comparison with June 1977 amounts.

Table 11

MONTHLY PEAK LOAD SUMMATION

JUNE 1978 COMPARED WITH JUNE 1977

Major Systems (1000 kilowatts)

REGION	JUNE 1978	JUNE 1977	PERCENT INCREASE
I Northeast	62,142	57,492	+ 8.1
II East Central	59,639	55,776	+ 6.9
III Southeast	80,330	75,841	+ 5.9
IV North Central	41,654	38,602	+ 7.9
V South Central	64,584	58,600	+ 10.2
VI West Central	9,674	9,063	+ 6.7
VII Northwest	21,199	20,271	+ 4.6
VIII Southwest	38,913	36,427	+ 6.8
CONTIGUOUS U.S. TOTAL	378,135	352,072	+ 7.4
Alaska	356	349	
Hawaii	999	966	
U.S. TOTAL	379,490	353,387	+ 7.4

1/ Includes approximately 95 percent of the electric utility generation.

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

CAPACITY

AGGREGATE INSTALLED NAMEPLATE CAPACITY of all electric utility systems in the United States, including Alaska and Hawaii, was 563,574 megawatts on June 30, 1978

THE NET INCREASE IN INSTALLED CAPACITY of all electric utility systems for the period June 1978 as compared to June 1977, as indicated in Table 12, amounted to 20,053 megawatts or 3.7 percent for the total United States.

Table 12

SUMMATION OF INSTALLED NAMEPLATE CAPACITY

AS OF JUNE 30, 1978

All Systems (1000 kilowatts) 1/

CENSUS REGIONS	INSTALLED NAMEPLATE CAPACITY JUNE 30,		PERCENT INCREASE
	1978	1977	
New England	20,896	20,887	0.0
Middle Atlantic	75,917	73,291	+ 3.6
East North Central	99,730	94,205	+ 5.9
West North Central	42,680	41,532	+ 2.8
South Atlantic	104,361	100,073	+ 4.3
East South Central	50,111	47,948	+ 4.5
West South Central	74,039	71,138	+ 4.1
Mountain	31,269	31,113	+ 0.5
Pacific	64,571	61,029	+ 5.8
CONTIGUOUS U.S. TOTAL	561,186	541,216	+ 3.7
Alaska	995	917	
Hawaii	1,393	1,388	
U.S. TOTAL	563,574	543,521	+ 3.7

1/ As reported by the FPC Form No. 4. For states included in the Census Regions, see Table 1.

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

DEPENDABLE CAPACITY

THE DEPENDABLE CAPACITY as of June 30, 1978, including net firm power purchases for the major systems was 533,401 megawatts.

THE INCREASE IN DEPENDABLE CAPACITY was 19,419 megawatts above June 1977. These amounts represent the actual load carrying ability of equipment under service conditions, giving effect to overload capability, power purchases from other sources, and limitations due to such causes as restricted water supply to hydro plants and insufficient boiler facilities for steam plants. Table 13 below shows existing June 30, 1978 dependable capacity, and are based on adverse hydro conditions.

Table 13

SUMMATION OF DEPENDABLE CAPACITY AS OF JUNE 30, 1978

Major Systems (1000 kilowatts)

Adverse Water Year

REGION	DEPENDABLE CAPACITY JUNE 30,		PERCENT INCREASE
	1978	1977	
I Northeast	91,989	93,288	– 1.4
II East Central	88,264	80,648	+ 9.4
III Southeast	107,850	102,447	+ 5.3
IV North Central	56,045	55,289	+ 1.4
V South Central	87,027	82,066	+ 6.1
VI West Central	12,929	12,464	+ 3.7
VII Northwest	34,286	34,570	– 0.8
VIII Southwest	52,677	50,887	+ 3.5
CONTIGUOUS U.S. TOTAL	531,067	511,659	+ 3.8
Alaska	858	842	
Hawaii	1,476	1,481	
U.S. TOTAL	533,401	513,982	+ 3.8

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

ENERGY FOR LOAD

ELECTRIC ENERGY REQUIREMENTS FOR JUNE 1978 on the principal electric utility systems in the United States were 186,648,000 megawatt-hours. The June total represented an increase of 4.7 percent over the preceding June, and an increase of 7.6 percent from the May 1978 total of 173,405,000 megawatt-hours.

REGIONAL TOTALS of energy for load for June 1978 with comparative figures for the same month of the previous year are shown in Table 14.

Table 14

MONTHLY ENERGY SUMMATION

JUNE 1978 COMPARED WITH JUNE 1977

Major Systems (1000 megawatt-hours)

REGION	JUNE 1978	JUNE 1977	PERCENT INCREASE
I Northeast	29,903	28,318	+ 5.6
II East Central	29,963	28,988	+ 3.4
III Southeast	39,270	38,632	+ 1.7
IV North Central	18,664	17,572	+ 6.2
V South Central	32,090	30,845	+ 4.0
VI West Central	4,370	4,179	+ 4.6
VII Northwest	12,554	11,231	+ 11.8
VIII Southwest	19,137	17,871	+ 7.1
CONTIGUOUS U.S. TOTAL	185,951	177,636	+ 4.7
Alaska	171	165	
Hawaii	526	502	
U.S. TOTAL	186,648	178,303	+ 4.7

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

LOAD AND CAPACITY TRENDS

THE GROWTH OF ELECTRIC POWER LOADS is shown in Table 15, by actual data on August and December peak load summations for the period 1963-1977. Annual energy amounts for the same period are also given.

COMPARATIVE AUGUST AND DECEMBER CAPACITY figures for the period, 1963-1977, appear in Table 16 on page 18.

Table 15

PEAK LOADS AND ANNUAL ENERGY, 1963 - 1977

UNITED STATES TOTALS FOR MAJOR SYSTEMS

YEAR	PEAK LOADS				ANNUAL ENERGY	
	AUGUST		DECEMBER			
	1000 KILOWATTS	% OVER PREV. YEAR	1000 KILOWATTS	% OVER PREV. YEAR	1000 MEGAWATT-HOURS	% OVER PREV. YEAR
1963	152,498	NA	156,844	NA	902,558	NA
1964	168,153	+ 10.3	166,101	+ 5.9	968,217	+ 7.3
1965	178,848	+ 6.4	175,068	+ 5.4	1,037,979	+ 7.2
1966	192,897	+ 7.9	187,854	+ 7.3	1,125,734	+ 8.5
1967	204,867	+ 6.2	200,633	+ 6.8	1,196,235	+ 6.3
1968	230,773	+ 12.6	220,120	+ 9.7	1,309,130	+ 9.4
1969	246,564	+ 6.8	228,958	+ 4.0	1,421,821	+ 8.6
1970	263,555	+ 6.9	241,577	+ 5.5	1,509,781	+ 6.2
1971	277,728	+ 5.4	254,923	+ 5.5	1,596,472	+ 5.7
1972	308,220	+ 11.0	284,170	+ 11.5	1,734,836	+ 8.7
1973	334,175	+ 8.4	284,935	+ 0.3	1,850,492	+ 6.7
1974	326,931	— 2.2	289,668	+ 1.7	1,845,008	— 0.1
1975	344,483	+ 5.4	314,360	+ 8.5	1,889,006	+ 2.4
1976	354,941	+ 3.0	330,306	+ 5.1	2,003,074	+ 6.0
1977	368,611	+ 3.9	339,062	+ 2.7	2,099,518	+ 4.8

N.A. = NOT AVAILABLE

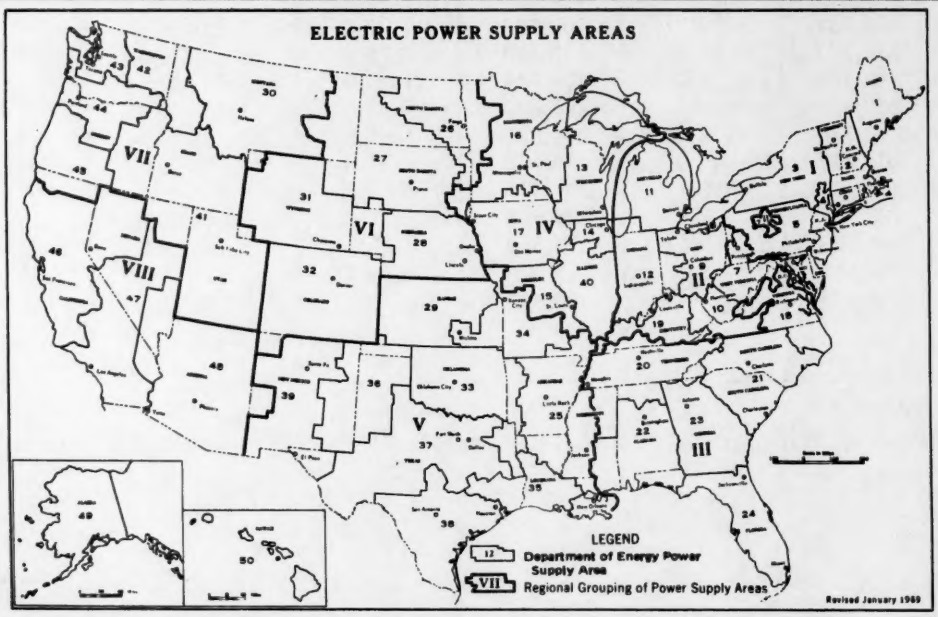
SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

Table 16

SYSTEM DEPENDABLE CAPACITY AND RESERVE MARGINS, 1963 - 1977

UNITED STATES TOTALS FOR MAJOR SYSTEMS (1000 kilowatts)

YEAR	AUGUST 31 DEPENDABLE (a)	INDICATED (b) GROSS RESERVES, % OF AUGUST PEAK	DECEMBER 31 DEPENDABLE (a)	INDICATED (b) GROSS RESERVES, % OF DECEMBER PEAK
1963	197,391	+ 29.4	201,446	+ 28.4
1964	209,223	+ 24.4	212,686	+ 28.0
1965	221,183	+ 23.7	225,680	+ 28.9
1966	233,119	+ 20.9	237,372	+ 26.4
1967	250,447	+ 22.2	257,642	+ 28.4
1968	272,493	+ 18.1	280,112	+ 27.3
1969	295,115	+ 19.7	301,142	+ 31.5
1970	317,069	+ 20.3	325,210	+ 34.6
1971	342,580	+ 23.4	354,072	+ 38.9
1972	370,851	+ 20.3	383,856	+ 35.1
1973	402,817	+ 20.5	415,402	+ 46.5
1974	(c)	(c)	456,282	+ 57.5
1975	(c)	(c)	478,212	+ 51.8
1976	492,576	+ 38.8	498,201	+ 50.8
1977	513,470	+ 39.3	526,149	+ 55.2



(a) System seasonal net capability (available and unavailable) based on adverse water year and including net firm power purchases.
(b) Excess of dependable capacity over peak load, as % of peak load.
(c) Data not available for August 1974 - 1975, due to new reporting system.

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

Table 13

ELECTRIC ENERGY FOR LOAD AND SYSTEM PEAK LOADS

MAJOR ELECTRIC UTILITY SYSTEMS - JUNE 1978

SYSTEM AND POWER SUPPLY AREA		ENERGY JUNE 1978 1000 KWH	PEAK LOAD JUNE 1978 1000 KW	DEPENDABLE CAPACITY AS OF JUNE 30 1000 KW
REGION I - NORTHEAST				
Combined Report - New England Power Exchange: Bangor Hydro-Electric Co.; Boston Edison Co.; Braintree (Mass.) Electric Light Dept.; Central Maine Power Co.; Central Vermont Public Service Corp.; Connecticut Yankee Atomic Power Co.; Eastern Utilities Associates; Fitchburg Gas and Electric Light Co.; Green Mountain Power Corp.; Holyoke (Mass.) Gas and Electric Dept.; Maine Public Service Co.; New England Electric System; New England Gas & Electric Association; Newport Electric Corp.; Northeast Utilities; Public Service Co of New Hampshire; Taunton (Mass.) Municipal Lighting Plant; United Illuminating Co; Vermont Electric Power Co. Inc.; Yankee Atomic Electric Co., and Smaller Public Private and Cooperative Systems in Area.	1 & 2	6,441,574	13,149	19,814
New York Power Pool - New York State Interconnected Systems: Central Hudson Gas & Electric Corp.; Consolidated Edison Co. of N.Y.; Jamestown Municipal Electric System; Long Island Lighting Co.; New York State; Electric & Gas Corp.; Niagara Mohawk Power Corp.; Orange & Rockland Utilities Inc.; Power Authority, State of New York; Rochester Gas & Electric Corp.	3 & 4	9,492,909	19,590	30,663
Combined Report - Pennsylvania - New Jersey - Maryland Interconnection: Atlantic City Electric Co.; Baltimore Gas & Electric Co.; Bethlehem Steel Co. (Sparrows Point Plant); Delmarva Power & Light Co.; General Electric Co.; Jersey Central Power & Light Co.; Luzerne Electric Division, United Gas Improvement Co.; Metropolitan Edison Co.; New Jersey Power & Light Co.; Pennsylvania Electric Co.; Pennsylvania Power & Light Co.; Philadelphia Electric Co.; Potomac Electric Power Co.; Public Service Electric and Gas Co.; Vineland, New Jersey, Municipal System	5 & 6	13,968,980	29,403	41,512
TOTAL REGION I		29,903,463	62,142	91,989
REGION II - EAST CENTRAL				
Combined Report: - Allegheny Power Service Corp., and Subsidiary, Monongahela Power Co., and Subsidiary, The Potomac Edison Co., and Subsidiaries, & West Penn. Power Co., and Subsidiaries.	7	2,353,178	4,362	6,960
Duquesne Light Co.	7	1,143,737	2,241	3,617
The Cleveland Electric Illuminating Co.	8	1,572,195	3,291	4,970
Cleveland, Ohio, Division of Light & Power	8	45,818	96	271
Buckeye Power, Inc.	9	236,857	501	858
Columbus and Southern Ohio Electric Co. (Company System)	9	755,643	1,834	2,510
Combined Report: Ohio Edison Co.; Pennsylvania Power Co.	9	1,949,547	3,937	6,237
The Toledo Edison Co.	9	672,354	1,308	2,057
Ohio Valley Electric Corp. (including subsidiary Indiana-Kentucky Electric Corp.)	9 & 12	1,415,903	2,010	2,359
Combined Report - American Electric Power System: Appalachian Power Co.; Indiana & Michigan Electric Co.; Kentucky Power Co.; Kingsport Power Co.; Ohio Power Co.; Wheeling Electric Co.; Michigan Power Co.; Sewell Valley Utilities Co.	10, 9 & 12	5,707,129	10,660	15,788
Consumers Power Co. (Main System)	11	2,220,672	4,258	7,257
The Detroit Edison Co.	11	3,304,913	6,781	10,187
Detroit, Michigan, Public Lighting Commission	11	51,134	108	243
Lansing, Michigan, Board of Water & Light	11	163,052	364	549
The Cincinnati Gas & Electric Co. and Subsidiary Companies	12	1,248,271	2,805	3,817
The Dayton Power and Light Co.	12	837,892	1,867	2,712
Hamilton, Ohio, Municipal Power Plant	12	37,813	96	141
Hoosier Energy Div.; Indiana Statewide R.E.C.; Inc.	12	151,265	179	295
Indianapolis Power & Light Co.	12	750,879	1,745	2,560
Louisville Gas and Electric Co. and Subsidiary	12	761,900	1,729	2,123
Northern Indiana Public Service Co. (Total Company System)	12	1,177,672	2,154	2,944
Public Service Co. of Indiana, Inc. (Interconnected System)	12	1,418,189	3,168	4,410
Richmond, Indiana, Power and Light	12	45,812	99	133
Southern Indiana Gas and Electric Co.	12	286,622	672	860
Big Rivers Electric Cooperative	19	517,492	800	935
East Kentucky Rural Electric Cooperative	19	238,274	551	678
Henderson, Municipal Power & Light	19	23,894	58	74
Combined Report: Kentucky Utilities Co.: Old Dominion Power Co.	19	823,347	1,835	2,470
Owensboro, Kentucky, Municipal Utilities	19	51,885	130	249
TOTAL REGION II		29,963,139	59,639	88,264
REGION III - SOUTHEAST				
Virginia Electric and Power Co.	18	3,196,802	7,235	11,152
Tennessee Valley Authority including Alcoa System and U.S. Department of the Interior, Southeastern Power Administration (Cumberland Basin Projects)	20	10,014,990	18,600	24,333
Carolina Power & Light Co.	21	2,477,968	5,379	7,388
Duke Power Co.	21	4,449,927	9,421	12,536
South Carolina Electric & Gas Co.	21	1,046,755	2,271	3,069
South Carolina Public Service Authority (Santee-Cooper Project)	21	552,683	1,231	1,480
Yadkin, Inc.	21	148,084	213	253
South Mississippi Electric Power Assn.	22	119,988	272	368
Alabama Electric Cooperative, Inc.	22 & 23	111,563	264	285
The Southern Company: Alabama Power Co.; Georgia Power Co.; Gulf Power Co.; Mississippi Power Co.; Southern Electric Generating Co.	22 & 23	9,116,716	19,437	24,299
Savannah Electric and Power Co.	22 & 23	217,779	449	522
Florida Power Corporation	24	1,654,765	3,459	4,552
Florida Power & Light Co. (Interconnected System)	24	4,164,899	7,973	11,325
Gainesville Electric Water & Sewer Util. Bd.	24	76,216	180	257
Jacksonville, Florida, Electric Authority	24	568,869	1,253	2,066
Lakeland, Florida, Department of Electric and Water Utilities	24	101,421	226	377
Orlando Utilities Commission	24	198,623	431	739
Tallahassee, Florida, City of	24	107,971	256	407
Tampa Electric Co. (Interconnected System)	24	943,507	1,780	2,442
TOTAL REGION III		39,269,526	80,330	107,850
REGION IV - NORTH CENTRAL				
Consolidated Water Power Co.	13	36,860	69	69
Edison Sault Electric Co.	13	26,806	50	56
Kaukauna, Wisconsin, Electrical & Water Depts.	13	34,348	64	86

Table 13 Continued - June 1978

SYSTEM AND POWER SUPPLY AREA		ENERGY JUNE 1978 1000 KWH	PEAK LOAD JUNE 1978 1000 KW	DEPENDABLE CAPACITY AS OF JUNE 30 1000 KW
REGION IV - Continued				
Madison Gas and Electric Co.	13	144,543	337	511
Manitowoc, Wisconsin, Public Utilities	13	19,774	45	69
Upper Peninsula Power Co. (Intergrated System)	13	243,504	376	544
Combined Report: Wisconsin Electric Power Co.; Wisconsin Michigan Power Co.	13	1,474,282	3,151	3,796
Wisconsin Power & Light Co. (and Subsidiary Co.)	13	547,550	1,153	1,610
Wisconsin Public Service Corp.	13	457,901	949	1,362
Commonwealth Edison Co.	14	5,680,307	12,851	17,829
Missouri Power & Light Co.	15	144,250	380	428
Union Electric Company	15	2,062,909	5,029	5,977
Dairyland Power Cooperative (Alma, Cassville, Chippewa Falls, Flambeau, Genoa, Wisconsin, and Twin Lakes, Minnesota	16	187,270	392	539
Lake Superior District Power Co.	16	58,514	115	172
Combined Report: Minnesota Power & Light Co.; Superior Water, Light and Power Co.	16	647,234	993	1,295
Northern States Power Co. (Minnesota) and Subsidiary Company (Interconnected System)	16	1,725,616	4,053	5,624
Rochester, Minnesota, City Electric Department	16	42,305	106	185
United Power Association	16, 26, & 27	148,685	299	527
Interstate Power Co. (Main Interconnected System)	17	265,766	652	889
Iowa Electric Light & Power Company	17	424,655	968	1,550
Iowa Illinois Gas & Electric Company	17	366,547	825	1,107
Iowa Power & Light Company	17	405,862	1,008	1,212
Combined Report: Iowa Public Service Co.; Corn Belt Power Cooperative	17	326,463	798	1,075
Iowa Southern Utilities Company	17	133,245	334	478
Central Illinois Light Co.	40	428,077	968	1,173
Central Illinois Public Service Co. (Interconnected System)	40	737,604	1,714	2,441
Electric Energy, Inc.	40	467,930	745	1,028
Illinois Power Co. (Total System)	40	1,256,030	2,803	3,893
Southern Illinois Power Cooperative	40	54,611	131	153
Springfield, Illinois, City Water, Light and Power Dept.	40	116,619	296	587
TOTAL REGION IV		18,664,069	41,654	56,045
REGION V - SOUTH CENTRAL				
Middle South Systems Power Pool: Arkansas-Missouri Power Co.; Arkansas Power & Light Co.; Louisiana Power & Light Co., Mississippi Power & Light Co.; New Orleans Public Service, Inc.	25	5,236,135	10,334	14,960
Missouri Utilities Co.	25	65,364	184	212
Combined Report - Associated Electric Cooperative Inc.: Central Electric Power, KAMO Electric, M. & A. Electric Power, N.W. Electric Power and Northeast Missouri Electric Power Cooperatives, Sho-Me Power Corporation	25, 33, 34 & 35	503,677	1,268	1,552
Combined Report - U.S. Department of the Interior, Southwestern Power Administration SPA Pool; SPA Interconnected Hydro System, including Beaver, Bull Shoals, Dardanelle, Denison, Eufaula, Fort Gibson, Greers Ferry, Keystone, Norfork, Ozark, Table Rock, Tenkiller Ferry, and Whitney Projects	25, 33, 34 & 35	46,950	166	536
The Central Kansas Power Co.	29	55,805	137	154
The Kansas Power and Light Co.	29	611,937	1,499	1,908
Western Power Division of Central Telephone & Utilities Corp. (Interconnected System)	29	143,383	354	502
Oklahoma Gas and Electric Co. (General Transmission System)	33	1,474,834	3,406	4,010
Public Service Co. of Oklahoma (Interconnected System)	33	946,173	2,289	2,977
Grand River Dam Authority	33	275,133	207	310
Southwestern Electric Power Co. (Interconnected System)	33	1,126,950	2,381	3,088
Western Farmers Electric Cooperative	33	237,373	503	778
The Empire District Electric Co.	34	185,439	425	566
Kansas Gas and Electric Co.	34	633,947	1,390	1,541
Kansas City, Kansas, Board of Public Utilities	34	187,626	407	624
Kansas City Power and Light Co.	34	818,497	1,953	3,270
Missouri Public Service Co. (Warrensburg System)	34	194,670	595	847
Springfield, Missouri City Utilities	34	119,475	330	462
St. Joseph Light & Power Co.	34	92,884	242	278
Cajon Electric Power Co—op.	35	89,578	210	331
Central Louisiana Electric Co. Inc.	35	502,856	1,030	1,174
Gulf States Utilities Co. (Gulf States System)	35	2,827,009	5,041	5,894
Lubbock, Texas, Municipal Power & Light	36	57,263	128	248
Southwestern Public Service Co. (Interconnected System)	36	1,007,223	2,047	2,312
Combined Report: Brazos Electric Power Cooperative, Inc.; Brazos River Authority	37	170,575	380	509
Electric Reliability Council of Texas (ERCOT) Austin Water, Light & Power Department; Central Power & Light Company, Dallas Power & Light Company; Houston Lighting & Power Company; Lower Colorado River Authority; San Antonio City Public Service Board; Texas Power & Light Company	37 & 38	13,251,457	25,284	34,855
West Texas Utilities Co.	37	410,935	810	1,071
U.S. Bureau of Reclamation (Rio Grande - Falcon Dam Projects); El Paso Electric Co.; Community Public Service Co. (Silver City, Alamogordo and Hollywood, N.M.); Plains Electric Generation & Transmission Cooperative; Public Service Co. of New Mexico	39	816,975	1,584	2,058
TOTAL REGION V		32,090,323	64,584	87,027
REGION VI - WEST CENTRAL				
Black Hills Power & Light Co. (Interconnected System)	26 & 27	82,498	169	254
Minnkota Power Cooperative, Inc.	26 & 27	102,743	226	501
Montana-Dakota Utilities Co. (Interconnected System)	26 & 27	151,939	320	434
Northern States Power (Minnesota) (Fargo-Grand Forks System)	26 & 27	68,405	166	168
Northern States Power Co. (Minnesota) (Minot System)	26 & 27	15,411	37	37
Northwestern Public Service Co.	26 & 27	65,567	187	227
Otter Tail Power Co.	26 & 27	180,217	336	450
U.S. Bureau of Reclamation (Missouri River Basin Eastern Division Integrated System)	26 & 27	414,679	1,290	1,470
Omaha Public District	28	481,161	1,226	1,593
Combined Report - Interconnected Power System Pool, Areas No. 31 and 32: U.S. Bureau of Reclamation's Western Division Area of Regions VI and VII; Pacific Power & Light Co. (Wyoming, Division); Cheyenne Light, Fuel and Power Co.; Nebraska Public Power District	28, 31 & 32	1,216,830	2,822	4,133
Colorado Spring, Colorado, Dept. of Public Utilities	32	132,367	256	322
Colorado-Ute Electric Association, Inc.	32	156,415	277	600
Public Service Co. of Colorado (Central System)	32	1,217,073	2,389	2,536
Southern Colorado Power Division, Central Telephone & Utilities Corp.	32	84,681	173	206
TOTAL REGION VI		4,369,986	9,674	12,929

Table 13 Continued - June 1978

SYSTEM AND POWER SUPPLY AREA		ENERGY JUNE 1978 1000 KWH	PEAK LOAD JUNE 1978 1000 KW	DEPENDABLE CAPACITY AS OF JUNE 30 1000 KW
REGION VII - NORTHWEST				
The Montana Power Co.	30	478,414	837	1,210
Pacific Power & Light Co. (Montana System)	30	36,252	70	96
U.S. Bureau of Reclamation (Missouri River Basin - Upper Missouri Projects - Canyon Ferry Unit)	30	176	1	1
U.S. Department of the Interior, Bonneville Power Administration (Bureau of Reclamation - Boise, Minidoka and Palisades Projects)	41	91,528	179	179
Idaho Falls, Idaho, Electric Division	41	26,159	50	51
Idaho Power Co. (Main System)	41	1,030,044	1,812	2,086
Utah Power & Light Co.	41	1,028,122	1,951	2,742
Public Utility District No. 2 of Grant County	42	141,024	257	503
Public Utility District No. 1 of Pend Oreille County	42	7,315	16	39
The Washington Water Power Co.	42	549,668	930	994
Washington Public Power Supply System	42, 43, 44 & 45	1,896	0	880
Pacific Power & Light Co. (Oregon-Washington-California System)	44 & 45	1,228,360	2,173	3,931
Portland General Electric Co.	44	972,980	1,735	3,971
U.S. Department of the Interior - Bonneville Power Administration	42, 43, 44, 30, 41 & 45	4,859,403	7,457	11,829
Public Utility District No. 1 of Chelan County	43	192,390	303	802
Puget Sound Power & Light Co.	43	894,868	1,596	1,932
Seattle, Washington, Dept. of Lighting	43	548,157	1,023	1,656
Tacoma, Washington, Dept. of Public Utilities, Light Division	43	320,857	536	1,058
Eugene, Oregon, Water & Electric Board	45	146,342	273	346
TOTAL REGION VII		12,553,955	21,199	34,286
REGION VIII - SOUTHWEST				
Combined Report: Turlock Irrigation District; Modesto Irrigation District	46	196,943	488	488
Pacific Gas and Electric Co.	46	5,989,627	12,200	14,651
Sacramento, California, Municipal Utility District	46	488,373	1,437	1,813
Sierra Pacific Power Co.	46	265,590	458	722
U.S. Bureau of Reclamation (Central Valley Project)	46	78,648	150	284
Burbank, California, Public Service Dept.	47	72,003	170	294
Glendale, California, Public Service Dept.	47	67,972	158	357
Imperial Irrigation District	47	156,537	339	438
Los Angeles, California, Dept. of Water and Power	47	1,693,133	3,680	5,972
Pasadena, California, Municipal Light and Power Dept.	47	71,816	169	323
San Diego Gas & Electric Co.	47	825,136	1,750	2,352
Southern California Edison Co.	47	5,535,882	10,980	15,074
Arizona Electric Power Cooperative, Inc.	48	71,540	128	256
Arizona Public Service Co. (All systems interconnected by U.S. Bureau of Reclamation facilities)	48	1,158,855	2,261	3,389
The Metropolitan Water District of Southern California	48	125,406	195	195
Nevada Power Company	48	516,561	1,108	1,206
Salt River Project Agricultural Improvement and Power District	48	1,069,778	1,789	2,876
Tucson Gas & Electric Co.	48	407,508	794	1,181
U.S. Bureau of Reclamation (Colorado River Storage Project)	48, 31, 32 & 41	71,918	139	258
Combined Report - U.S. Bureau of Reclamation (Colorado River System - Lower Basin): Parker-Davis Project; Boulder Canyon Project (Transmission only); Senator Wash Pumping-Generating Plant, Yuma Projects	48	304,434	540	569
TOTAL REGION VIII		19,136,660	38,913	52,677
CONTIGUOUS UNITED STATES TOTAL		185,951,121	378,135	531,067
ALASKA				
Alaska Electric Light & Power Co.	49	8,367	18	38
Anchorage Municipal Light & Power Plant	49	39,407	73	137
Chugach Electric Association, Inc.	49	88,664	156	336
Fairbanks Municipal Utilities System	49	N.A.	N.A.	N.A.
Golden Valley Electric Association	49	20,702	40	214
Ketchikan Public Utilities	49	5,955	12	30
U.S. Bureau of Reclamation (Eklutna Project)	49	1,631	34	34
Alaska Power Administration (Snettisham Project)	49	1,817	14	47
Kodiac Electric Association, Inc.	49	4,530	9	22
TOTAL ALASKA		170,873	356	858
HAWAII				
Hawaiian Electric Company, Inc.	50	439,488	826	1,209
Hilo Electric Light Company, Ltd.	50	35,434	73	124
Maui Electric Company, Ltd.	50	33,584	68	80
Citizens Utilities Company (Kauai Electric Div.)	50	17,353	32	63
TOTAL HAWAII		525,859	999	1,476
UNITED STATES TOTAL		186,647,853	379,490	533,401

N.A. Not Available

SOURCE: FEDERAL POWER COMMISSION, FORM 12E-2, "SUPPLEMENTAL POWER STATEMENT"

Chart 3

ELECTRIC UTILITY GENERATING CAPACITY PEAK LOADS AND ENERGY SUPPLIED 1972 - 1978

Based on Reports by Major Systems of the United States

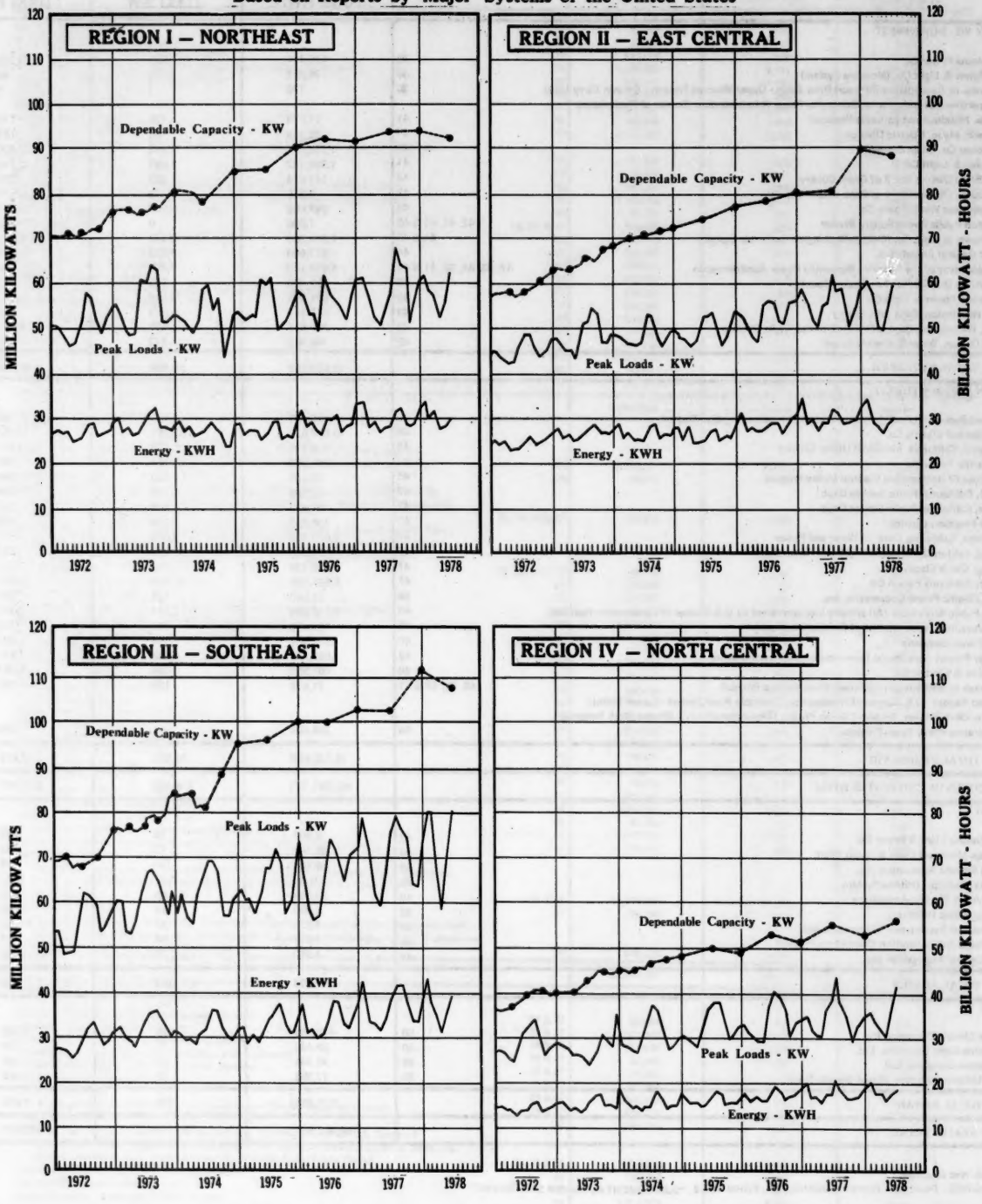
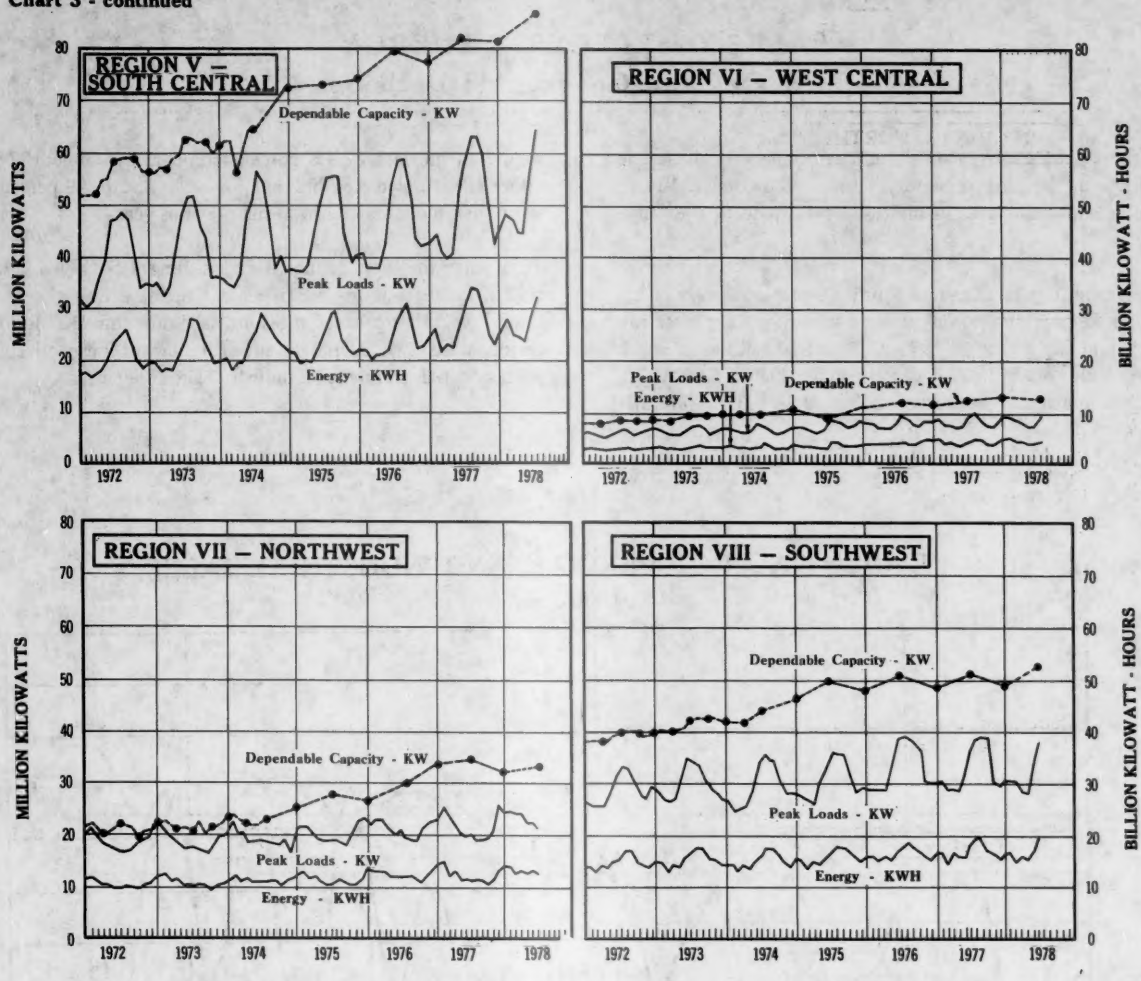


Chart 3 - continued

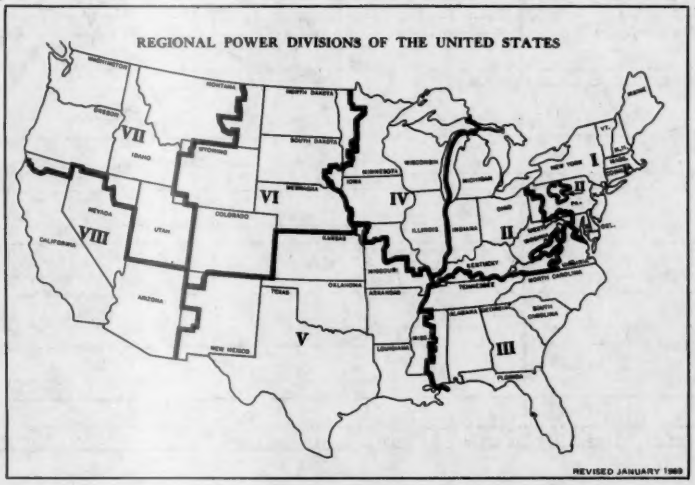

REGION V — SOUTH CENTRAL
Dependable Capacity - KW
Peak Loads - KW
Energy - KWH
REGION VI — WEST CENTRAL
Peak Loads - KW
Energy - KWH
Dependable Capacity - KW
REGION VII — NORTHWEST
Dependable Capacity - KW
Peak Loads - KW
Energy - KWH
REGION VIII — SOUTHWEST
Dependable Capacity - KW
Peak Loads - KW
Energy - KWH
MILLION KILOWATTS
BILLION KILOWATT - HOURS
0 10 20 30 40 50 60 70 80
1972 1973 1974 1975 1976 1977 1978

NOTES:

Dependable capacity, which includes net firm power purchases, is based on adverse hydro conditions.

Relation between capacity and loads indicates overall condition for region although existing inter-connections may not permit full coordination throughout each region.

For further information refer to data in accompanying report.



SALES OF ELECTRIC ENERGY
By States and Geographic Divisions

Sales of electric energy to ultimate consumers by all electric utilities in the United States in June 1978 totaled 164.12 billion kilowatt-hours, an increase of 4.0 percent over June 1977.

Sales to residential consumers during June 1978 were 50.58 billion kilowatt-hours, an increase of 4.5 percent over the corresponding month in 1977. Commercial sales were 38.62 billion kilowatt-hours, 2.6 percent more than in June 1977. Sales to industrial consumers totaled 69.10 billion kilowatt-hours, an increase of 4.6 percent compared to June 1977. Other sales totaled 5.82 billion kilowatt-hours, or 3.9 percent more than the same month of the previous year.

Total sales for the 12-months ended June 1978 were 1.96 trillion kilowatt-hours, a 3.5 percent increase over the preceding year. Percent changes in sales for the 12-month period were 5.4, 3.0, 2.4, and 1.9 percent, respectively, for residential, commercial, industrial and other sales.

Chart 4

RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL SALES
United States

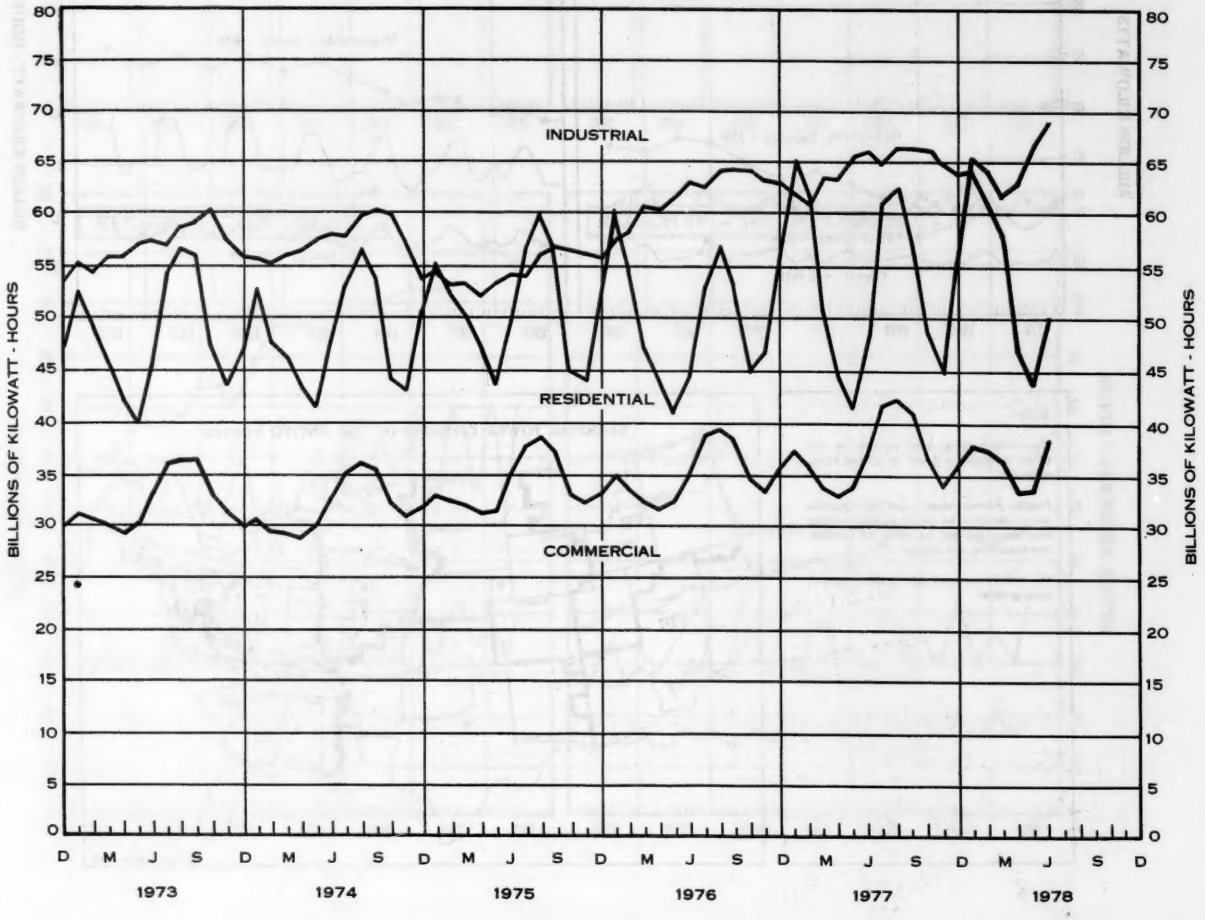


Table 18

SALES OF ELECTRIC ENERGY TO ULTIMATE CONSUMERS

12 - MONTH PERIODS ENDED — (thousand kwh)

GEOGRAPHIC DIVISION CLASS OF SERVICE	JUNE 1978	JUNE 1977	PERCENT CHANGE
UNITED STATES			
Residential	658,202,494	624,709,495	5.4
Commercial	449,028,792	435,759,607	3.0
Industrial	778,631,218	760,334,576	2.4
Other	71,317,644	69,989,446	1.9
TOTAL	1,957,180,148	1,890,793,124	3.5
NEW ENGLAND			
Residential	28,003,388	27,432,799	2.1
Commercial	22,884,665	22,055,744	3.8
Industrial	21,203,888	20,484,600	3.5
Other	1,863,346	1,788,926	4.2
TOTAL	73,955,287	71,762,069	3.1
MIDDLE ATLANTIC			
Residential	76,779,885	74,406,640	3.2
Commercial	65,577,759	63,810,954	2.8
Industrial	92,344,263	89,907,477	2.7
Other	11,772,896	11,869,278	− 0.8
TOTAL	246,474,803	239,994,349	2.7
EAST NORTH CENTRAL			
Residential	113,071,343	108,924,938	3.8
Commercial	74,653,085	73,500,809	1.6
Industrial	178,804,735	175,650,961	1.8
Other	13,212,613	13,102,063	0.8
TOTAL	379,741,776	371,178,771	2.3
WEST NORTH CENTRAL			
Residential	50,292,309	48,621,438	3.4
Commercial	31,165,356	30,169,854	3.3
Industrial	44,716,909	43,613,498	2.5
Other	3,701,097	4,012,254	− 7.8
TOTAL	129,875,671	126,417,044	2.7
SOUTH ATLANTIC			
Residential	133,177,802	124,691,251	6.8
Commercial	80,367,938	78,512,218	2.4
Industrial	110,291,113	104,374,700	5.7
Other	11,143,102	10,672,983	4.4
TOTAL	334,979,955	318,251,152	5.3

GEOGRAPHIC DIVISION CLASS OF SERVICE	JUNE 1978	JUNE 1977	PERCENT CHANGE
EAST SOUTH CENTRAL			
Residential	59,174,552	56,209,954	5.3
Commercial	23,426,112	22,459,663	4.3
Industrial	89,135,091	93,471,949	− 4.6
Other	3,613,341	3,552,180	1.7
TOTAL	175,349,096	175,693,746	− 0.2
WEST SOUTH CENTRAL			
Residential	83,900,725	74,653,997	12.4
Commercial	52,773,889	48,721,195	8.3
Industrial	108,669,753	100,388,825	8.2
Other	10,792,102	10,021,265	7.7
TOTAL	256,136,469	233,785,282	9.6
MOUNTAIN			
Residential	29,880,858	28,289,340	5.6
Commercial	25,927,309	24,519,058	5.7
Industrial	35,609,495	35,722,032	2.5
Other	4,057,814	4,163,054	− 2.5
TOTAL	96,475,476	92,693,484	4.1
PACIFIC: Contiguous States			
Residential	81,061,115	78,729,850	3.0
Commercial	70,251,142	70,171,028	0.1
Industrial	93,455,842	93,445,567	—
Other	11,005,254	10,642,720	3.4
TOTAL	255,773,353	252,989,165	1.1
PACIFIC: Noncontiguous States			
Residential	2,860,517	2,749,288	4.0
Commercial	2,001,537	1,839,084	8.8
Industrial	3,400,129	3,274,967	3.8
Other	156,079	164,723	− 5.2
TOTAL	8,418,262	8,028,062	4.9

SOURCE: FEDERAL POWER COMMISSION, FORM 5, "MONTHLY STATEMENT OF ELECTRIC OPERATING REVENUE AND INCOME"

GEOGRAPHIC DIVISIONS

Table 19

SALES OF ELECTRIC ENERGY TO ULTIMATE CONSUMERS

June 1978 - (thousand kwh)

DIVISION AND STATE	CLASS OF SERVICE								TOTAL	
	RESIDENTIAL		COMMERCIAL		INDUSTRIAL		OTHER			
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
NEW ENGLAND										
CONNECTICUT	562,997	573,582	500,882	519,804	493,920	520,076	19,206	17,794	1,577,005	1,631,256
MAINE	200,643	206,398	120,912	125,193	247,062	257,111	13,040	12,664	581,657	601,366
MASS	790,382	802,436	891,615	933,685	684,140	711,942	63,900	67,554	2,430,037	2,515,617
NEW HAMP	156,799	165,211	68,888	74,844	173,753	194,748	6,674	6,394	406,114	441,197
RHODE ISLND	126,904	128,523	123,035	129,841	118,410	116,089	12,418	11,249	380,767	385,702
VERMONT	96,284	103,209	45,332	49,062	77,553	85,846	8,002	7,127	227,171	245,244
SUBTOTAL	1,934,009	1,979,359	1,750,664	1,832,429	1,794,838	1,885,812	123,240	122,782	5,602,751	5,820,382
MIDDLE ATLANTIC										
NEW JERSEY	1,085,623	1,176,704	1,207,832	1,290,987	1,420,392	1,496,788	29,804	29,619	3,743,651	3,994,098
NEW YORK	2,162,343	2,203,611	2,529,397	2,593,227	2,653,353	2,711,993	702,986	749,647	8,048,079	8,258,478
PENN	2,018,707	2,111,976	1,464,724	1,482,027	3,886,570	3,952,784	156,829	152,988	7,526,830	7,699,775
SUBTOTAL	5,266,673	5,492,291	5,201,953	5,366,241	7,960,315	8,161,565	889,619	932,254	19,318,560	19,952,351
EAST NORTH CENTRAL										
ILLINOIS	2,149,961	2,017,045	2,029,933	1,753,477	2,917,658	3,232,965	500,892	481,750	7,598,444	7,485,237
INDIANA	1,293,688	1,218,842	754,797	704,319	2,699,360	2,770,046	48,570	45,270	4,796,415	4,738,477
MICHIGAN	1,632,382	1,649,487	1,202,620	1,214,060	3,002,131	3,052,392	118,256	115,694	5,955,389	6,031,633
OHIO	2,118,531	2,180,584	1,505,948	1,510,513	5,697,895	5,833,180	294,733	295,334	9,617,107	9,819,611
WISCONSIN	926,980	975,720	692,990	713,313	1,050,394	1,080,443	83,085	96,641	2,753,449	2,866,117
SUBTOTAL	8,121,542	8,041,678	6,186,288	5,895,682	15,367,438	15,969,026	1,045,536	1,034,689	30,720,804	30,941,075
WEST NORTH CENTRAL										
IOWA	703,439	675,472	407,453	408,959	694,619	712,625	43,594	42,771	1,849,105	1,839,827
KANSAS	446,751	430,428	482,223	475,580	550,868	615,322	47,633	45,202	1,527,475	1,566,532
MINNESOTA	825,206	790,705	386,958	382,311	1,233,990	1,291,733	60,617	56,793	2,506,771	2,521,542
MISSOURI	1,264,777	1,268,907	966,973	973,522	896,242	906,557	84,261	83,502	3,212,253	3,232,488
NEBRASKA	389,347	373,596	292,365	305,778	314,679	339,125	39,135	32,857	1,035,526	1,051,356
N. DAKOTA	145,113	153,107	49,583	50,753	89,674	103,602	20,788	20,673	305,158	328,135
S. DAKOTA	156,922	163,419	60,546	59,144	106,000	118,167	21,701	13,921	345,169	354,651
SUBTOTAL	3,931,555	3,855,634	2,646,101	2,656,047	3,886,072	4,087,131	317,729	295,719	10,781,457	10,894,531
SOUTH ATLANTIC										
DELAWARE	121,578	128,140	105,220	114,196	192,796	203,584	5,624	4,406	425,218	450,326
FLORIDA	3,131,186	3,673,216	1,925,825	2,106,538	1,436,465	1,524,022	198,561	219,847	6,692,437	7,523,623
GEORGIA	1,402,283	1,471,704	1,123,693	929,125	1,355,152	1,649,853	46,243	47,639	3,927,371	4,098,321
MARYLAND DC	785,349	824,221	860,076	856,684	1,254,971	1,277,890	48,841	47,841	2,949,237	3,006,636
N. CAROLINA	1,395,694	1,516,739	933,859	983,507	2,137,900	2,163,278	125,706	130,932	4,593,161	4,794,456
S. CAROLINA	814,886	870,410	611,807	660,171	1,379,090	1,405,456	76,045	84,032	2,881,828	3,020,069
VIRGINIA	1,140,931	1,334,635	860,641	994,365	905,867	980,646	378,012	447,078	3,285,451	3,756,724
W. VIRGINIA	373,652	384,104	249,387	254,157	849,088	871,796	6,276	6,372	1,478,403	1,516,429
SUBTOTAL	9,165,561	10,203,169	6,670,508	6,898,743	9,511,329	10,076,525	885,708	988,147	26,233,106	28,166,584
EAST SOUTH CENTRAL										
ALABAMA	1,228,661	1,207,845	558,600	556,685	2,198,784	2,271,699	27,075	26,956	4,013,120	4,063,185
KENTUCKY	555,385	577,071	355,553	364,914	1,650,034	1,605,865	141,915	138,705	2,703,387	2,686,555
MISSISSIPPI	765,286	748,715	356,757	364,626	675,159	683,687	51,567	55,183	1,848,769	1,852,211
TENNESSEE	1,845,909	1,818,907	871,752	872,848	3,254,950	2,889,202	67,204	79,324	6,039,815	5,660,281
SUBTOTAL	4,395,741	4,352,538	2,142,662	2,159,073	7,778,927	7,450,453	287,761	300,168	14,605,091	14,262,232
WEST SOUTH CENTRAL										
ARKANSAS	784,982	685,261	392,925	359,218	831,948	782,325	73,454	54,598	2,083,309	1,881,402
LOUISIANA	1,444,046	1,529,978	712,721	778,165	1,622,590	1,761,934	292,757	313,980	4,072,114	4,404,057
OKLAHOMA	847,946	783,689	546,444	541,584	737,303	802,767	154,678	141,147	2,286,371	2,269,187
TEXAS	4,310,497	4,784,899	3,036,498	3,317,201	5,816,042	6,303,249	417,001	472,849	13,580,038	14,878,198
SUBTOTAL	7,387,471	7,783,827	4,688,588	4,996,168	9,007,883	9,670,275	937,890	982,574	22,021,832	23,432,844
MOUNTAIN										
ARIZONA	652,269	713,787	566,388	630,633	672,599	671,172	172,468	140,755	2,063,724	2,156,347
COLORADO	401,897	445,181	446,495	479,125	544,177	552,608	52,727	52,942	1,445,296	1,529,856
IDAHO	282,867	305,749	465,826	486,695	384,725	475,007	7,039	7,256	1,140,457	1,274,007
MONTANA	171,838	186,810	129,217	133,658	458,817	488,834	15,444	14,134	775,316	823,436
NEVADA	223,770	261,914	176,416	215,895	240,915	230,324	28,105	25,944	669,206	734,077
NEW MEXICO	165,730	177,577	228,508	228,275	204,027	215,558	60,526	59,666	658,761	681,076
UTAH	193,759	203,206	172,099	165,467	290,925	332,676	55,279	57,191	712,062	758,540
WYOMING	71,323	81,578	66,709	71,743	275,655	317,610	7,984	7,725	421,671	478,656
SUBTOTAL	2,163,423	2,375,102	2,251,658	2,411,491	3,071,840	3,283,789	399,572	365,613	7,886,493	8,435,995
PACIFIC: CONTIGUOUS STATE										
CALIFORNIA	3,633,447	3,878,618	4,611,987	4,747,248	4,332,268	4,341,456	500,930	553,331	13,048,632	13,520,653
OREGON	842,701	874,223	665,173	734,133	958,196	1,180,806	46,664	45,771	2,512,734	2,834,933
WASHINGTON	1,394,768	1,521,291	687,308	756,050	2,128,674	2,708,829	153,909	189,213	4,364,659	5,175,383
SUBTOTAL	5,840,916	6,274,132	5,964,468	6,237,431	7,419,138	8,231,091	701,503	788,315	19,926,025	21,530,969
PACIFIC: NONCONTIGNOUS STATES										
ALASKA	64,531	73,437	54,046	62,229	41,437	43,505	5,902	4,423	165,916	183,594
HAWAII	147,722	145,787	100,802	108,834	224,460	238,365	6,252	6,222	479,276	499,208
SUBTOTAL	212,253	219,224	154,848	171,063	265,897	281,870	12,154	10,645	645,192	682,802
UNITED STATES TOTAL	48,419,144	50,576,954	37,657,738	38,024,368	66,063,677	69,097,537	5,600,752	5,820,906	157,741,311	164,119,765

SOURCE: FEDERAL POWER COMMISSION, FORM 5, "MONTHLY STATEMENT OF ELECTRIC OPERATING REVENUE AND INCOME"

SALES, REVENUES AND INCOME

Privately Owned Classes A and B Electric Utilities

The following data are based on information tabulated from monthly FPC Form 5 reports and are comparable to the annual data for Classes A and B Privately Owned Electric Utilities presented in the annual EIA publication "Statistics of Privately Owned Electric Utilities in the United States".

Revenues from residential sales by the privately owned electric utilities in the United States increased 14.0 percent in June 1978 -- from $1.51 billion in June 1977 to $1.72 billion in June 1978. Total electric operating revenues in June 1978 were $5.48 billion, representing an increase of $658 million or 13.6 percent from the June 1977 revenues of $4.82 billion.

Fuel expense for production of electric energy, the largest single expense item, increased 10.1 percent from $1.71 billion in June 1977 to $1.88 billion in June 1978. Total taxes of $724 million in June 1978 were 14.1 percent higher than for the same month in 1977. Total electric operating expenses increased 14.0 percent to $4.58 billion in June 1978 from $4.02 billion in June 1977. Net electric operating revenues were $899 million in June 1978, 12.1 percent higher than the $802 million for June 1977.

Interest on long-term debt increased 10.1 percent, from $467 million for June 1977 to $514 million for the same period in 1978.

Net income for the month was $671 million, higher by 12.8 percent than in 1977. Total dividends of $469 million declared during the current June were approximately $65 million more than in 1977, representing an increase of 16.1 percent.

Revenues from residential sales by the privately owned electric utilities increased 14.5 percent during the year ended June 1978 -- from $18.03 billion in June 1977 to $20.64 billion for the 12 months ended June 1978. Total electric operating revenues in the years ended June 1977 and June 1978 were $54.23 billion and $62.22 billion, respectively, an increase of 14.7 percent.

Fuel expense for production of electric energy increased 15.8 percent from $18.36 billion for the 12 months ended June 1977 to $21.27 billion for the following year. Total taxes of $8.68 billion for the year ended June 1978 were higher by 12.3 percent than for the period ended in 1977. Total electric operating expenses increased 16.4 percent to $51.63 billion for the year ending June 1978 from $44.35 billion the previous year. During the year ended June 1978 net electric operating revenues increased 7.2 percent from $9.88 billion in 1977 to $10.59 billion.

Interest on long-term debt increased 9.5 percent, from $5.39 billion for the year ended June 1977 to $5.90 billion for the current year.

Net income during the 12 months ended June 1978 was $8.27 billion, up 7.9 percent from the $7.66 billion reported for the similar period ended June 1977. Total dividends declared increased 13.2 percent, from $5.70 billion to $6.45 billion for the 12 months ended June 1978.

Table 20

SALES, REVENUES AND INCOME

Classes A and B Privately Owned Electric Utilities*

ITEM	JUNE 1977	JUNE 1978	PERCENT CHANGE
ELECTRIC OPERATING REVENUES:			
Residential service	$ 1,509,380,596	$ 1,720,188,433	14.0
Commercial service	1,318,711,823	1,471,948,827	11.6
Industrial service	1,278,275,695	1,514,227,001	18.5
Other sales to ultimate consumers	138,755,315	148,586,581	7.1
Total sales to ultimate consumers	$ 4,245,123,429	$ 4,854,568,842	14.4
Sales for resale	$ 498,319,993	$ 564,529,258	13.3
Total sales of electric energy	$ 4,743,443,422	$ 5,419,478,100	14.3
Other electric revenues	$ 76,844,555	$ 58,547,682	23.8-
Total electric operating revenues	$ 4,820,287,976	$ 5,478,025,781	13.6
ELECTRIC OPERATING EXPENSES:			
Salaries and wages charged to electric operation	$ 417,521,446	$ 475,220,022	13.8
Fuel expense for production of electric energy	1,708,318,996	1,880,814,682	10.1
Other	874,073,494	1,073,295,993	22.8
Total operation and maintenance expenses	$ 2,999,913,936	$ 3,429,320,697	14.3
Depreciation and amortization	$ 384,063,672	$ 425,859,050	10.9
Taxes other than income taxes	$ 375,474,040	$ 422,939,183	12.6
Income taxes - Federal	64,536,658	73,939,215	14.6
Income taxes - Other	10,511,967	19,260,956	83.2
Provisions for deferred income taxes	102,444,897	93,945,516	8.3-
Investment tax credit adjustments - net	81,563,699	114,141,001	39.9
Total taxes	$ 634,531,261	$ 724,225,870	14.1
Total electric operating expenses	$ 4,018,508,869	$ 4,579,405,617	14.0
Net electric operating revenues	$ 801,779,107	$ 898,620,165	12.1
NET ELECTRIC OPERATING REVENUES:			
Income from electric plant leased to others	260,352	389,017	49.4
Electric utility operating income	$ 802,039,455	$ 899,009,182	12.1
Other utility operating income	$ 13,745,347	14,571,335	6.0
Disposition of utility plant	78,445	68,873-	NM
Total utility operating income	$ 815,863,249	$ 913,511,643	12.0
Other income and deductions - Net	$ 84,549,334	82,960,755	1.9-
Allowance for other funds used during construction	113,650,428	139,103,562	22.4
Total income	$ 1,014,063,011	$ 1,135,575,960	12.0
INTEREST CHARGE:			
Interest on long-term debt	$ 467,276,160	$ 514,431,618	10.1
Amortization of debt discount, premium, and expenses	2,361,584	2,506,913	6.2
Amortization of gain or loss on reacquired debt-net	57,003-	63,550-	NM
Other interest charges	28,726,790	35,390,230	23.2
Allowance for borrowed funds used during construction - credit	78,769,470	87,525,173	11.1
Total interest charges	$ 419,538,060	$ 464,740,035	10.8
NET INCOME:			
Income before extraordinary items	$ 594,524,952	$ 670,835,923	12.8
Extraordinary items - Net	179,055	4,145-	NM
Total	$ 594,704,008	$ 670,831,779	12.8
SALES OF ELECTRIC ENERGY - Thousands of Kwh:			
Residential service	36,168,755	37,930,020	4.9
Commercial service	32,045,940	32,772,934	2.3
Industrial service	51,500,670	54,042,873	4.9
Other sales to ultimate consumers	3,866,831	3,956,822	2.3
Total sales to ultimate consumers	123,582,196	128,702,649	4.1
Sales for resale	23,921,477	25,437,572	6.3
Total sales of electric energy	147,503,673	154,140,221	4.5
NUMBER OF CUSTOMERS:			
Residential service	57,968,134	59,299,031	2.3
Commercial service	7,000,822	7,138,514	2.0
Industrial service	345,343	363,428	5.2
Other sales to ultimate consumers	251,621	254,156	1.0
Total sales to ultimate consumers	65,565,920	67,055,129	2.3
Sales for resale	3,884	3,923	1.0
Total customers	65,569,804	67,059,052	2.3
DIVIDENDS DECLARED:			
Preferred stock	$ 100,615,865	$ 105,603,992	5.0
Common stock	303,617,170	363,731,022	19.8
Total dividends declared	$ 404,233,035	$ 469,335,014	16.1

*Includes Alaska & Hawaii
NM - Not Meaningful
Due to rounding detail may not add to totals

SOURCE: FEDERAL POWER COMMISSION, FORM 5, "MONTHLY STATEMENT OF ELECTRIC OPERATING REVENUE AND INCOME"

Table 21

TWELVE - MONTH TOTAL SALES, REVENUES AND INCOME

Classes A and B Privately Owned Electric Utilities*

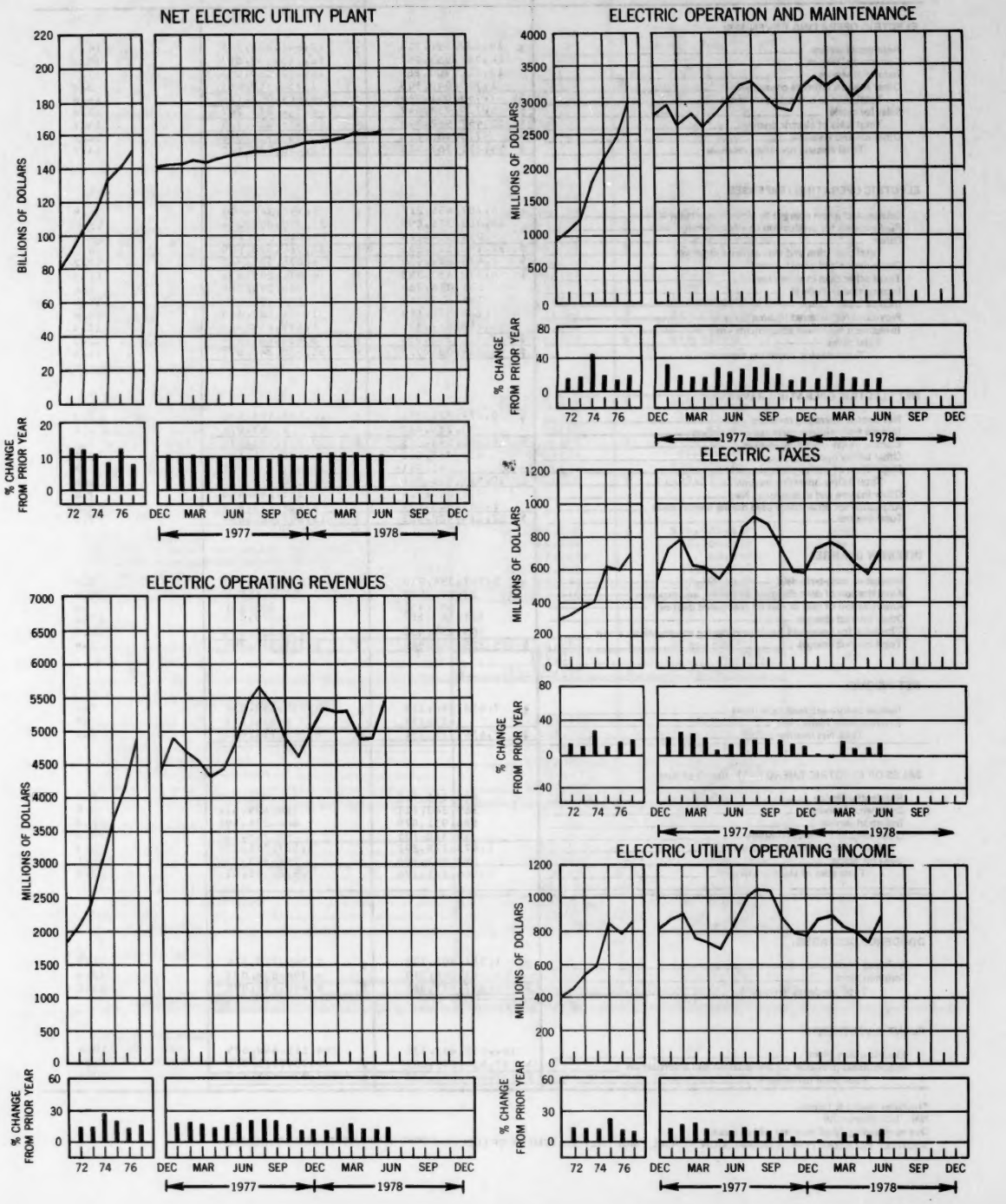
ITEM	TWELVE MONTHS ENDED JUNE 1977	TWELVE MONTHS ENDED JUNE 1978	PERCENT CHANGE
ELECTRIC OPERATING REVENUES:			
Residential service	$ 18,032,326,714	$ 20,641,888,245	14.5
Commercial service	14,267,953,847	16,243,599,093	13.8
Industrial service	13,726,700,869	16,162,050,806	17.7
Other sales to ultimate consumers	1,706,048,903	1,756,469,965	3.0
Total sales to ultimate consumers	$ 47,733,031,541	$ 54,804,008,116	14.8
Sales for resale	$ 5,724,930,447	$ 6,514,011,207	13.8
Total sales of electric energy	$ 53,457,962,390	$ 61,318,019,325	14.7
Other electric revenues	$ 773,405,084	$ 898,919,846	16.2
Total electric operating revenues	$ 54,231,367,476	$ 62,216,939,175	14.7
ELECTRIC OPERATING EXPENSES:			
Salaries and wages charged to electric operation	$ 4,787,435,217	$ 5,352,348,499	11.8
Fuel expense for production of electric energy	18,362,338,091	21,270,587,274	15.8
Other	9,046,354,223	11,444,042,132	26.5
Total operation and maintenance expenses	$ 32,196,127,531	$ 38,066,978,105	18.2
Depreciation and amortization	$ 4,426,678,930	$ 4,876,535,342	10.2
Taxes other than income taxes	$ 4,372,453,798	$ 4,874,289,833	11.5
Income taxes - Federal	631,014,788	666,170,988	5.6
Income taxes - Other	195,517,258	232,484,614	18.9
Provisions for deferred income taxes	1,286,579,680	1,474,228,365	14.6
Investment tax credit adjustments - net	1,245,667,336	1,437,657,425	15.4
Total taxes	$ 7,731,232,259	$ 8,684,831,224	12.3
Total electric operating expenses	$ 44,354,038,723	$ 51,628,344,677	16.4
NET ELECTRIC OPERATING REVENUES:			
Net electric operating revenues	$ 9,877,328,751	$ 10,588,594,495	7.2
Income from electric plant leased to others	3,214,462	3,357,075	4.4
Electric utility operating income	$ 9,880,543,213	$ 10,591,951,570	7.2
Other utility operating income	636,738,061	636,561,159	0.0
Disposition of utility plant	241,951-	66,301	NM
Total utility operating income	$ 10,517,039,321	$ 11,228,579,030	6.8
Other income and deductions - Net	798,085,776	853,648,446	7.0
Allowance for other funds used during construction	1,569,303,607	1,525,175,353	2.8-
Total income	$ 12,884,428,703	$ 13,607,402,833	5.6
INTEREST CHARGE:			
Interest on long-term debt	$ 5,387,594,915	$ 5,901,336,130	9.5
Amortization of debt discount, premium, and expenses	22,891,977	27,666,031	20.9
Amortization of gain or loss on reacquired debt-net	594,751-	602,251	NM
Other interest charges	321,587,687	377,279,215	17.3
Allowance for borrowed funds used during construction - credit	505,937,450	955,330,834	88.8
Total interest charges	$ 5,225,542,585	$ 5,351,552,794	2.4
NET INCOME:			
Income before extraordinary items	$ 7,658,886,118	$ 8,255,850,037	7.8
Extraordinary items - Net	437,131	9,861,045	NM
Total Net income	$ 7,659,323,251	$ 8,265,711,081	7.9
SALES OF ELECTRIC ENERGY - Thousands of Kwh:			
Residential service	466,666,968	491,673,719	5.4
Commercial service	369,360,711	380,539,421	3.0
Industrial service	586,931,879	606,276,995	3.3
Other sales to ultimate consumers	50,318,735	48,728,123	3.2-
Total sales to ultimate consumers	1,473,278,292	1,527,218,259	3.7
Sales for resale	292,942,904	298,978,756	2.1
Total sales of electric energy	1,766,221,196	1,826,197,015	3.4
DIVIDENDS DECLARED:			
Preferred stock	$ 1,384,915,132	$ 1,549,327,824	11.9
Common stock	4,313,166,729	4,898,824,071	13.6
Total dividends declared	$ 5,697,971,861	$ 6,448,151,895	13.2
PLANT INVESTMENT:			
Electric utility plant	184,655,463,172	204,111,448,675	10.5
Accumulated provision for depreciation and amortization	$ 37,514,806,689	$ 41,739,515,885	11.3
Total plant investment	$ 147,140,656,483	$ 162,371,932,790	10.4

*Includes Alaska & Hawaii
NM - Not Meaningful
Due to rounding detail may not add to totals
SOURCE: FEDERAL POWER COMMISSION, FORM 5, "MONTHLY STATEMENT OF ELECTRIC OPERATING REVENUE AND INCOME"

Chart 5

NET ELECTRIC UTILITY PLANT, ELECTRIC OPERATING REVENUES, EXPENSES, TAXES, AND INCOME

CLASSES A AND B PRIVATELY OWNED ELECTRIC UTILITIES IN THE UNITED STATES



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